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- Friedman, Joel I. On some relations between Leibniz' monadology and transfinite set theory (a complement to the Russell thesis). (58 #26956)
- (Gross, Herbert) *See* Finsler, Paul, (57 #15929)
- von Kutschera, Franz Freges Begründung der Analysis. (58 #27237)
- (Leibniz, Gottfried Wilhelm) *See* Friedman, Joel I., (58 #26956)
- Meschkowski, Herbert ★Hundert Jahre Mengenlehre. (57 #9551)
- Murata, Tamotsu Sur l'évolution de l'idée d' "effectif" dans l'histoire de la théorie des ensembles. (English summary) (58 #4906)
- (Russell, B. A.) *See* Friedman, Joel I., (58 #26956)
- (Unger, Georg) *See* Finsler, Paul, (57 #15929)
- (Zorn, Max) *See* Campbell, Paul J., (57 #2845)

04-04 Explicit machine computation and programs (not the theory of computation or programming)

04-06 Collections of papers; proceedings of conferences

04A05 Relations, functions [See also 08A05.]

- Ahlsvede, Rudolf (with Daykin, David E.) An inequality for the weights of two families of sets, their unions and intersections. 58 #10454
- Bednarek, A. R. (with Ulam, Stanisław M.) Some remarks on relational composition in computational theory and practice. (58 #32049)
- Birsan, Paraschiva Anti-equivalence relations. (Romanian. French summary) 58 #16305
- Bredlin, D. A. Maximal semigroups with involution of projection symmetric binary relations. (Russian) (58 #940)
- Burros, Raymond H. Complementary properties of binary relations. 57 #16081
- Daykin, David E. *See* Ahlsvede, Rudolf, 58 #10454
- Diasamidze, Ja. I. A description of all minimal left (right) idempotent divisors of almost diagonal relations. (Russian) (57 #16435)
- Fraïssé, Roland Present problems about intervals in relation-theory and logic. 57 #16082
Deux relations dénombrables, logiquement équivalentes pour le second ordre, sont isomorphes. (58 #27297)
- Hagendorf, Jean Guillaume Surdistributivité du plongement entre chaînes. (English summary) 57 #5756
- Haralick, Robert M. The characterization of binary relation homomorphisms. (58 #21894)
- Harazisvili, A. B. P -isomorphisms of binary relations. (Russian. Georgian and English summaries) 58 #238
- Hemmerling, Armin Allgemeine Untersuchungen zur Entscheidbarkeit und Trennbarkeit bezüglich Kodierungen. (English and Russian summaries) 58 #10455
- Malitz, Mihaela Topology, binary relations and internal operations. (57 #13816)
- Maurer, Christian Ein rekursiv definiertes geordnetes Paar. 57 #16083
- Norris, Eugene M. Maximal rectangular relations. 58 #5231

04-XX SET THEORY

- (Burgess, John P.) *See* Handbook: Mathematical logic, (58 #27475)
- (Devlin, Keith J.) *See* Handbook: Mathematical logic, (58 #27475)
- (Jech, Thomas J.) *See* Handbook: Mathematical logic, (58 #27475)
- (Juhász, I.) *See* Handbook: Mathematical logic, (58 #27475)
- (Kunen, Kenneth) *See* Handbook: Mathematical logic, (58 #27475)
- (Rudin, Mary Ellen) *See* Handbook: Mathematical logic, (58 #27475)
- (Shoenfield, Joseph R.) *See* Handbook: Mathematical logic, (58 #27475)
- Handbook:
Mathematical logic, Part C Set theory. (58 #27475)
- Set theory *See* Handbook: Mathematical logic, (58 #27475)

04-01 Elementary exposition (collegiate level)

- Ahrens, Ingrid *See* Meschkowski, Herbert, (58 #2667)
- (Boróú, Leo F.) *See* Kuratowski, Kazimierz, (58 #30948a)
- (Cantor, Georg) *See* Meschkowski, Herbert, 57 #9551
- Ciriúș, J. ★Лекции по математической логике и теории множеств. Часть II. Теория множеств. (Russian) [Lectures on mathematical logic and set theory. Part II. Set theory] (58 #27169b)
★Лекции по математической логике и теории множеств. Часть I. Математическая логика. (Russian) [Lectures on mathematical logic and set theory. Part I. Mathematical logic] (58 #27169a)
- Ebbinghaus, Heinz-Dieter ★Einführung in die Mengenlehre. 58 #27491
- (Engelking, Ryszard) *See* Kuratowski, Kazimierz, (58 #30948a) and Kuratowski, Kazimierz, (58 #30948b)
- Ferrier, Jean-Pierre ★Introduction à la théorie des ensembles. 57 #119

- Provičenko, I. I. Set-theoretic operations. (Russian) **58** #21624
The structure of a class of set-theoretic operations. (Russian) **58** #27492
Iterated operations and the R -operation. (Russian) **58** #21625
- Rey, Alma E. On difunctional and circular relations. **57** #12227
- Ruzet, Maurice Les chaînes complètes sont simplifiables à droite pour la multiplication ordinaire. (57 #5841)
- Szymusiński, Teodor C. On the notion of n -cardinality. **58** #10456
- Szadosi, Christian Densité asymptotique des nombres de Bell divisibles par un nombre premier p . (English summary) (58 #5574)
- Talcher, Werner Closure operators. (Italian summary) (57 #1388)
- Tomonowicz, Zbigniew Representations of a family of sets. (Polish. English summary) (58 #5249)
- Trott, Dana S. Models for various type-free calculi. (57 #15987)
- Ureider, Ju. A. Heredity of the properties of relations. (Russian) **58** #10457
See also Vilenkin, N. Ja. (57 #5677)
- Ureider, E. (with Winter, H.) On the definition of the operations: equivalence relation, order relation partial order relation, order relation, group, metric. (Russian. Hungarian and English summaries) (57 #18900)
- Ureider, V. S. Semiaadjacency relation in algebras of multiplace functions. (Russian) **57** #12228
- Ureider, Helge On the Milner-Shelah condition for transversals. **58** #21626
- Ureider, N. B. Some algebras of binary relations. (Russian) **58** #16306
- Ureider, Stanisław M. See Bednarek, A. R., (58 #32049)
- Ureider, V. P. Multiple function decomposition with a fixed conjugate function. (Russian) **58** #27493
- Ureider, N. Ja. (with Šreider, Ju. A.) Majorant spaces and "majority" quantifier. (Russian. English summary) (57 #5677)
- Ureider, Tadeusz A certain characterization of the supremum in a partially ordered set. (Polish. English summary) **58** #27494
- Ureider, H. See Sztosek, E., (57 #18900)

04A10 Transfinite numbers

- Abian, Alexander The use of mitotic ordinals in cardinal arithmetic. **57** #12229
- Alster, Kazimierz Almost disjoint families and some characterizations of alephs. (Russian summary) **57** #12230
- Chrastina, Jan An application of inaccessible alephs. (58 #2672)
- Janazawa, Masazumi A second order theory of ordinal numbers with Ackermann-type reflection schema. (57 #9545)
- A theory of ordinal numbers with Ackermann's schema. (58 #229)
- Hickman, John L. Critical points of normal functions. I. **58** #5233
Some results on series of ordinals. **58** #5232
Critical points of normal functions. II. **58** #27495
An independence result concerning infinite products of alephs. **57** #12231
- Isles, David The accessibility of ϵ_0 . (58 #5091)
- Komjáth, Péter Rearranging transfinite series of ordinals. **57** #12232
- Lenstra, H. W., Jr. On the algebraic closure of two. (57 #16268)
- Truss, John Classes of Dedekind finite cardinals. (57 #9541)

04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 02K30, 28A05, 54H05.]

- Arsenin, V. Ja. (with Kozlova, Z. I.) A survey of A. A. Ljapunov's works on descriptive set theory. (Russian) (57 #9432)
- Becker, Richard Idempotence of l'opération de Souslin. **57** #12233
- Blackwell, D. Borel-programmable functions. (57 #566)
- Bose Majumder, N. C. Cantor set in the l_2 -space and its properties. **58** #27496a
Errata: "Cantor set in the l_2 -space and its properties" (Bull. Calcutta Math. Soc. 69 (1977), no. 1, 21-25). **58** #27496b
- Čoban, M. M. The descriptive theory of sets. (Russian) **58** #16307
- Daguenet-Teissier, Maryvonne Emploi des filtres sur N dans l'étude descriptive des fonctions. (57 #10671)
- Davies, Roy O. (with Jayne, J. E.; Ostaszewski, A. J.; Rogers, C. A.) Theorems of Novikov type. (57 #1450)
- Filippov, V. P. See Kozlova, Z. I., **58** #27497
- Harazisvili, A. B. Some applications of Hamel bases. (Russian. Georgian and English summaries) (57 #3343)
- Jayne, J. E. Generation of α -algebras, Baire sets and descriptive Borel sets. (58 #22445)
See also Davies, Roy O.; et al., (57 #1450)
- Kaniewski, Janusz A selection theorem for partitions of Borel sets into compact subsets. (Russian summary) **58** #239
- Kanovei, V. G. A proof of a theorem of Luzin. (Russian) **58** #16308
- Kozlova, Z. I. Some properties of projective operations with full depth of chains over uncountable families of sets. (Russian) **57** #5757
(with Filippov, V. P.) The construction of classes of projective sets. (Russian) **58** #27497
See also Arsenin, V. Ja., (57 #9432)
- Kuratowski, Kazimierz A certain theorem on ideals, and its applications to the Baire property of Polish spaces. (Russian) (57 #1452)
- (Ljapunov, A. A.) See Arsenin, V. Ja.; et al., (57 #9432)
- Lunina, M. A. Luzin's arithmetic example of an analytic set that is not a Borel set. (Russian) **58** #5234
- Malyhin, V. I. The equivalence of Martin's axiom and a purely topological assertion. (Russian. English summary) **57** #121
- Marenkova, E. A. Decomposition of certain B -sets of the space J_{ω}^{ω} . (Russian) **57** #5758
- Marty, Roger H. Mazur's theorem and Banach measures. (Russian summary) **57** #12234
- Mathias, A. R. D. Happy families. (58 #10462)
(with Ostaszewski, A. J.; Talagrand, Michel) On the existence of an analytic set meeting each compact set in a Borel set. (58 #233)
- Nebaluev, S. I. See Simel'fenig, O. V., (57 #9091)

- Ostaszewski, A. J. See Davies, Roy O.; et al., (57 #1450) and Mathias, A. R. D.; et al., (58 #233)
- Rogers, C. A. See Davies, Roy O.; et al., (57 #1450)
- Saint-Pierre, Jean Séparation d'un schema de Souslin. **58** #5235
- Ščegol'kov, E. A. Uniformization of sets of certain classes. (Russian) **58** #27498
- Shelah, Saharon Remarks on cardinal invariants in topology. (58 #2674)
- Simel'fenig, O. V. (with Nebaluev, S. I.) The operation of direct products and decomposition in games on graphs. (Russian) (57 #9091)
- Talagrand, Michel See Mathias, A. R. D.; et al., (58 #233)
- Truss, John Sets having calibre \aleph_1 . (57 #16073)
- Tsuda, Takeo On the measurability of certain functions. (Japanese) **58** #21627
- Bibliography:
Ljapunov, A. A. See Arsenin, V. Ja.; et al., (57 #9432)
- 04A20 Combinatorial [See also 05A05.]
- Abian, Alexander Convergent subsequences of generalized sequences of sets. **58** #16309
- Abramson, Fred G. (with Harrington, L. A.; Kleinberg, Eugene M.; Zwicker, W. S.) Flipping properties: a unifying thread in the theory of large cardinals. (57 #116)
- Baumgartner, James E. (with Taylor, Alan D.) Partition theorems and ultrafilters. **58** #10458
- Blass, Andreas Ramsey's theorem in the hierarchy of choice principles. (57 #5751)
- Büchi, J. Richard Using determinacy of games to eliminate quantifiers. (58 #16244)
- Chodnosky, Gregory V. Kurepa's conjecture and the regularity of ultrafilters. (Russian. English summary) **58** #5236
- Cichoń, Jacek Some remarks on selectors. (Russian summary) (57 #9548)
- Cohen, Robert H. Generalizing König's infinity lemma. (58 #5306)
- Devlin, Keith J. Note on a theorem of J. Baumgartner. (58 #27476)
- (with Shelah, Saharon) A weak version of \diamond which follows from $2^{\aleph_0} < 2^{\aleph_1}$. (57 #9537)
- A note on the combinatorial principles $\diamond(E)$. **58** #10459
- Dujols, René Le théorème de Karp-Myhill comme corollaire du théorème des mariages, divers aspects de la "non-généralisation" du théorème de Karp-Myhill. (58 #27416)
- Erdős, Paul (with Hajnal, A.; Milner, E. C.) On set systems having paradoxical covering properties. **58** #21628
(with Szemerédi, Endre) Combinatorial properties of systems of sets. (58 #10467)
- Friedman, Joel I. Some set-theoretical partition theorems suggested by the structure of Spinoza's God. **57** #9552
- Galvin, Fred Indeterminacy of point-open games. (Russian summary) (58 #12881)
(with Jech, Thomas J.; Magidor, Menachem) An ideal game. **58** #5237
- Grzegorek, E. (with Węglorz, B.) Extensions of filters and fields of sets. I. **58** #10460
- Hajnal, A. See Erdős, Paul; et al., **58** #21628
- Harrington, L. A. See Abramson, Fred G.; et al., (57 #116)
- Hechler, Stephen H. Generalizations of almost disjointness, c -sets, and the Baire number of $\aleph_N - N$. (57 #12217)
- Henle, J. M. Some consequences of an infinite-exponent partition relation. **58** #10461
(with Kleinberg, Eugene M.) A flipping characterization of Ramsey cardinals. **58** #5238
- Hodges, Wilfred (with Lachlan, Alistair; Shelah, Saharon) Possible orderings of an indiscernible sequence. **57** #16085
- Jech, Thomas J. See Galvin, Fred; et al., **58** #5237
- Jones, F. B. On fake Souslin trees. **57** #122
- Jovanović, Aleksandar A remark on filter regularity. **58** #16310
- Kanamori, A. Weakly normal filters and irregular ultrafilters. **58** #240
- Some combinatorics involving ultrafilters. (58 #16299)
- Katětov, Miroslav On idempotent filters. (Czech and loose Russian summaries) **57** #12235
- Kim, Ki Hang (with Roush, Fred William) Counting additive spaces of sets. (58 #440)
- Kleinberg, Eugene M. ★Infinitary combinatorics and the axiom of determinateness. (58 #109)
See also Abramson, Fred G.; et al., (57 #116) and Henle, J. M., **58** #5238
- Koppelberg, Sabine A complete Boolean algebra without homogeneous or rigid factors. **57** #2918
- Kucia, A. On saturating ultrafilters on N . **58** #5240
(with Szymański, A.) There are absolute ultrafilters on N which are not minimal. **58** #5239
- Kurepa, Djuro R. On some hypotheses concerning trees. **57** #2919
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- Lachlan, Alistair See Hodges, Wilfred; et al., **57** #16085
- Laczkovich, M. On the limit superior of sequences of sets. (Russian summary) **58** #16312
- Lake, John Spinözistic partitions of classes. (57 #16078)
- Laver, Richard A set in L containing regularizing families for ultrafilters. **58** #5241
- Lolli, Gabriele On Ramsey's theorem and the axiom of choice. (58 #10463)
- Louveau, Alain Ultrafiltres absolus. **57** #16086
Ultrafiltres absolus et problèmes d'extraction de sous-suites. **57** #16087
Relations d'équivalence co-analytiques. **58** #5242
- Magidor, Menachem See Galvin, Fred; et al., **58** #5237
- Mathias, A. R. D. Happy families. **58** #10462
- Milliken, Keith R. Hindman's theorem and groups. (58 #21654)
- Milner, E. C. See Erdős, Paul; et al., **58** #21628
- Nešetřil, Jaroslav Riga P -point. **58** #241
- Prikry, Karel Kurepa's hypothesis and α -complete ideals. **58** #242
- Rado, Richard Sets of constancy of regressive functions on well ordered sets. **57** #16089
(with Wilkie, A. J.) Reconstruction theorems for families of sets. **57** #16088
- Rav, Yehuda Variants of Rado's selection lemma and their applications. **57** #16090
- Roush, Fred William See Kim, Ki Hang, (58 #440)
- Shelah, Saharon Whitehead groups may be not free, even assuming CH. I. (57 #9538)
Jonsson algebras in successor cardinals. (58 #21572)
See also Devlin, Keith J., (57 #9537) and Hodges, Wilfred; et al., **57** #16085

- Stanley, L. J. On the principle square: coding and extending embeddings. 57 #2920
 Szemerédi, Endre See Erdős, Paul, (58 #10467)
 Szymański, A. See Kucia, A., 58 #5239
 Tall, Franklin D. Stalking the Soutlin tree—a topological guide. 58 #16313
 Taylor, Alan D. Partitions of pairs of reals. 57 #5759
 See also Baumgartner, James E., 58 #10458
 Węglorz, B. Some properties of filters. 58 #5243
 See also Grzegorek, E., 58 #10460
 Wilkie, A. J. See Rado, Richard, 57 #16088
 Williams, N. H. Chain conditions and the existence of delta-families. 57 #5760
 Zwicker, W. S. See Abramson, Fred G.; et al., (57 #116)

04A25 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 02K20.]

- Burgess, John P. Equivalences generated by families of Borel sets. 57 #16084
 Ebbinghaus, Heinz-Dieter Axiomatizing set theory. (58 #230)
 Henle, J. M. Some consequences of an infinite-exponent partition relation. (58 #10461)
 Kleinberg, Eugene M. AD^+ "the \aleph_n are Jonsson cardinals and \aleph_ω is a Rowbottom cardinal". (57 #9550)
 Lolli, Gabriele On Ramsey's theorem and the axiom of choice. 58 #10463

04A30 Continuum hypothesis, generalized continuum hypothesis [See also 02K25.]

- Carpintero Organero, Pablo On topology, Boolean algebras and cardinal numbers. (Spanish) (57 #17582)
 Frankiewicz, Ryszard On the inhomogeneity of the set of $P(m)$ -points of ω^* . (58 #12924)
 Truss, John Sets having calibre \aleph_1 . (57 #16073)

04A99 Miscellaneous topics

- (Bang, Sung Y.) See Leenders, J. H., 58 #27501
 Benlahcen, Driss (with Hirsch, Gérard; Lamotte, Michel) Codage et minimisation des fonctions floues dans une algèbre floue. (English summary) (58 #4655)
 Bočvar, D. A. (with Fuskon, V. I.) Boolean operations over Russell cores. (Russian) 58 #27499
 Butnariu, Dan Fuzzy games: a description of the concept. (58 #20540)
 Černý, Martin (with Glückaufová, Dagmar) Application of fuzzy sets in multicriterion decision problems. (Czech. English summary) (58 #15260)
 Cools, M. See Kaufmann, A.; et al., 58 #27500
 Dubois, Didier (with Prade, Henri) Operations on fuzzy numbers. 58 #10464
 Dubois, T. See Kaufmann, A.; et al., 58 #27500
 Dumitrescu, D. A definition of an informational energy in fuzzy sets theory. (Romanian summary) 58 #5244
 Fuskon, V. I. See Bočvar, D. A., 58 #27499
 Giles, Robin Łukasiewicz logic and fuzzy set theory. (58 #10297)
 Glückaufová, Dagmar See Černý, Martin, (58 #15260)
 Hirsch, Gérard See Benlahcen, Driss; et al., (58 #4655)
 Jahn, K.-U. Min-Max-Intervallrechnung. (58 #19089)
 Kandel, Abraham Block decomposition of imprecise models. 58 #33610
 Properties of fuzzy matrices and their applications to hierarchical structures. 58 #33611
 Fuzzy statistics and forecast evaluation. (57 #11654)
 Kaufmann, A. ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). 58 #5245a
 ★Introduction to the theory of fuzzy subsets. 58 #5245b
 ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). (58 #25056a)
 ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). (58 #25056b)
 (with Dubois, T.; Cools, M.) ★Exercices avec solutions sur la théorie des sous-ensembles flous. 58 #27500
 ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). 58 #5245c
 ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). (58 #25056c)
 Kóczy, L. T. On some basic theoretical problems of fuzzy mathematics. (57 #9370)
 Lamotte, Michel See Benlahcen, Driss; et al., (58 #4655)
 Leenders, J. H. Some remarks on an article by Raymond T. Yeh and S. Y. Bang dealing with fuzzy relations: "Fuzzy relations, fuzzy graphs, and their applications to clustering analysis" (Fuzzy sets and their applications to cognitive and decision processes (Proc. U.S.-Japan Sem., Univ. Calif., Berkeley, Calif., 1974), pp. 125-149). 58 #27501
 Longo, Giuseppe "Fuzzy sets" e la nozione d'incertezza. I. (58 #26538)
 Loo, S. G. Fuzzy relations in the social and behavioral sciences. 57 #5761
 Mizumoto, Masaharu (with Tanaka, Kohkichi) The four operations of arithmetic on fuzzy numbers. 57 #16091
 Nahmias, Steven Fuzzy variables. 58 #16314
 Negoită, Constantin Virgil (with Ralescu, Dan A.) ★Applications of fuzzy sets to systems analysis. (58 #9442a)
 (with Ralescu, Dan A.) ★Applications of fuzzy sets to systems analysis. (58 #9442b)
 (with Ralescu, Dan A.) L -fuzzy sets and L -fou sets. (German and Russian summaries) 58 #5246
 Nguyen, Hung T. Some mathematical tools for linguistic probabilities. 58 #16315
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- See also Negoită, Constantin Virgil, 58 #5246; Negoită, Constantin Virgil, (58 #9442a) and Negoită, Constantin Virgil, (58 #9442b)
 Ristea, Tudor G. Distance in the set of predicates. (Romanian. French summary) (58 #16450)
 Roventa, E. Fuzzy measures. 58 #21629a
 Sequences of fuzzy sets. 58 #21629b
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 See also Kaufmann, A., 58 #5245a; Kaufmann, A., 58 #5245b and Kaufmann, A., 58 #5245c

05-XX COMBINATORICS [For finite fields, see 12Cxx.]

- Guba, Wolfgang Ein maximaler lokaler Algorithmus für Klassen unverkürzbarer Überdeckungen. (58 #5100)
 Kauth, Donald E. ★Mariages stables et leurs relations avec d'autres problèmes combinatoires. (58 #8470)

05-01 Elementary exposition (collegiate level)

- Andrásfai, Béla ★Introductory graph theory. (58 #27572)
 Bertoni, Alberto (with Torelli, Mauro) ★Elementi di matematica combinatoria. 58 #245
 Brualdi, Richard A. ★Introductory combinatorics. 58 #21631
 Graver, Jack E. (with Watkins, Mark E.) ★Combinatorics with emphasis on the theory of graphs. 58 #21632
 Halder, Heinz-Richard (with Heise, Werner) ★Einführung in die Kombinatorik. 58 #16316
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 Honsberger, Ross ★Mathematical morsels. (58 #9950)
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 Torelli, Mauro See Bertoni, Alberto, 58 #245
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05-02 Advanced exposition (research surveys, etc.)

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 Schönheim, J. (with Bialostocki, A.) Decomposition of K_n into subgraphs of prescribed type. 58 #27646c
 Stanley, Richard P. Some combinatorial aspects of the Schubert calculus. 57 #5766
 Stečkin, B. S. Some combinatorial problems. (Russian) 58 #21633
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05-03 Historical

- (Bachet de Méziriac, Claude Gaspar) See Knobloch, Eberhard, (58 #21137)
 Hadayat, A. Hadamard matrices and their applications. (58 #27561)
 Homenko, M. P. (with Vivrot, T. M.) Mutual interrelationship of the ideas of matrix theory and graph theory in their historical development. I. (Russian) (58 #27071)
 Knobloch, Eberhard ★Die mathematischen Studien von G. W. Leibniz zur Kombinatorik. (58 #26899)
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- Graczyńska, E.** (with Wroński, Andrzej) On normal Agassiz systems of algebras. 57 #5870a
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- Henkin, Leon** The logic of equality. 57 #12345
- Hodges, Wilfred** A normal form for algebraic constructions. II. 58 #21903
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- Iséki, Kiyoshi** On algebras of Griss type. 58 #459
- Ishaq, Mohammad** Sur une congruence et l'homomorphisme faible des algèbres universelles. 58 #10669
- Iturrioz, Luisa** Łukasiewicz and symmetrical Heyting algebras. (58 #10437)
- Ježek, J.** Endomorphism semigroups and subgroupoid lattices. 57 #12347
- John, Reinhard** Gültigkeitsbegriffe für Gleichungen in partiellen Algebren. 57 #12348
- Kaiser, H. K.** Über kompatible Funktionen in universalen Algebren. 57 #212
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- See also **Glazek, K.**; et al., 58 #458
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- Keřtenova, R. T.** On the theory of equationally compact algebras. (Russian) 58 #27698
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- Kuhtenko, O. I.** The axiomatic construction of the mathematical theory of systems. (Russian) (58 #15332)
- Lancov, A. L.** (with Rakov, M. A.) Synthesis of many-valued functions in a modular algebra with a composite modulus. (Russian) 58 #5464
- Länger, Helmut** Eine Bemerkung über Äquivalenzrelationen in Funktionenalgebren. 57 #3044
- Lau, Dietlinde** Kongruenzen auf gewissen Teilklassen von $P_{k,1}$. (57 #12213)
- Markovski, Smile** See **Čupona, Gorgi**, (58 #16929)
- Matthiessen, Günter** Ideals, normal sets and congruences. 57 #12349
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- Militz, R.** Jacobson's density theorem in universal algebra. 57 #16169
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- Modules and radicals of universal algebras. (Russian) 58 #10671
- Kurosch-Amitsur-Radikale in der universalen Algebra. 57 #3046
- Morse, A. P.** See **Arnold, R. F.**, 58 #5460
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- Nöbauer, Wilfried** Polynome und algebraische Gleichungen über universalen Algebren. 57 #16170
- See also **Hule, Harald**, 57 #5872 and **Hule, Harald**, 57 #5873
- Padmanabhan, R.** See **Mendelsohn, N. S.**, 57 #3045
- Páffy, Péter Pál** On certain congruences lattices of finite unary algebras. 57 #12352
- Plonka, Jerzy** On a decomposition of an algebra into the sum of a double system of subalgebras. (Russian summary) 57 #5875
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- Podewski, Klaus-Peter** Topologisierung algebraischer Strukturen. (57 #4142)
- Polin, S. V.** Identities in congruence lattices of universal algebras. (Russian) (58 #10663)
- Poncová, Lenka** Groupoids with multi-operators. (Russian. Czech and English summaries) 58 #21904
- Groups with multi-operators. (Russian. Czech and English summaries) 58 #21905
- Quackenbush, Robert W.** A note on a problem of Goralčík. 57 #16171
- Rakov, M. A.** See **Lancov, A. L.**, 58 #5464
- Redi, E.** The representation of polyringoids. (Russian. Estonian and English summaries) 57 #9635
- Reiterman, Jan** A more categorical model of universal algebra. (57 #12643)
- Rořz, E. N.** Subdirectly irreducible monars. (Russian) 58 #5468
- Romov, B. A.** Local characteristics of Post algebras. I. (Russian. English summary insert) (58 #221a)
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- Galois correspondence between iterative Post algebras and relations on infinite sets. (Russian. English summary insert) (58 #222)
- See also **Bairamov, R. A.**, 58 #10666
- Rosenberg, Ivo G.** Special types of universal algebras preserving a relation. 57 #5876
- Roszak, Krystyna** Proper isometries of a regular n -gon as the automorphism group of a universal algebra. (Polish. English summary) (57 #6158)
- Salii, V. N.** (with Kozыр, N. P.) Geometric lattices, and idempotent algebras. (Russian) 58 #463
- Šaripov, Ju. Š.** An algebraic operation as a law of correspondence of two elements to a third. (Russian) 58 #27700
- Sauer, Norbert** (with Stone, M. G.) Endomorphism and subalgebra structure; a concrete characterization. 58 #464
- Schmidt, Jürgen** Quasi-decompositions, exact sequences, and triple sums of semigroups. I. General theory. 57 #12353a
- Quasi-decompositions, exact sequences, and triple sums of semigroups. II. Applications. 57 #12353b
- Schweigert, Dietmar** Endomorphically complete groups. (57 #16407)
- Zur Definition der Polynomalgebra. 57 #5877
- Sekimoto, Toshitiko** On some free pseudo-Boolean algebras. (58 #5200)
- Ševčíková, Jitka** The five-group theorem. 57 #3047
- Compact elements of the lattice of congruences in an algebra. (Czech and loose Russian summaries) 57 #3048
- Skornjakov, L. A.** See **Egorova, D. P.**, 58 #457
- Šlipenko, A. K.** Regular operatives and ideal equivalences. (Russian. English summary) 58 #10673
- Stone, M. G.** See **Sauer, Norbert**, 58 #464
- Suszko, Roman** See **Dzik, Wojciech**, (58 #27681)
- Szendrei, Ágnes** On affine modules. (57 #12606)
- Taylor, Walter** Baker's finite basis theorem. (57 #16166)
- Teh, H. H.** (with Chen, C. C.) On the number of automorphisms of an algebra. 57 #9636
- Timm, J.** On regular algebras. 58 #10674
- Veiskaja, N. B.** Some algebras of binary relations. (Russian) (58 #16306)
- Urastaeв, D. D.** Categories of rigid commutative sheaves of algebras. (Russian) 58 #16469
- Valucă, I. I.** ★Отображения: алгебраические аспекты теории. (Russian) [Mappings: algebraic aspects of the theory] 57 #213
- Varlet, J.** Remarks on fully invariant congruences. 58 #5469
- Werner, Heinrich** Finite simple nonabelian groups are functionally complete. (Italian summary) (57 #6184)
- Wesolowski, Tadeusz** Automorphisms of the idempotent reducts of certain groups with exponent 2. (Polish. English summary) 57 #5878
- Wiegandt, R.** (with Wiesenbauer, Johann) Über die Unabhängigkeit der Distributivitätsbedingungen. 57 #12354
- Wiesenbauer, Johann** On the polynomial completeness defect of universal algebras. 58 #16470
- See also **Wiegandt, R.**, 57 #12354 and **Eigenthaler, Günther**, 58 #5462
- Wroński, Andrzej** See **Graczyńska, E.**, 57 #5870a and **Graczyńska, E.**, 57 #5870b
- Yutani, Hiroshi** The class of commutative BCK-algebras is equationally definable. (58 #223)
- Žitomirskij, G. I.** Exact diagrams in categories of lattices. (Russian) (58 #22235)

10-XX NUMBER THEORY [Excluding 10Axx and 10Mxx, this classification scheme does not distinguish work in the rational number fields from that in other algebraic number fields.]

10-01 Elementary exposition (collegiate level)

- Adams, William W. (with Goldstein, Larry Joel) ★Introduction to number theory. 57 #16172
(Barsky, Daniel) See Parent, D. P., 58 #5471
(Bertrandias, Françoise) See Parent, D. P., 58 #5471
(Christol, Gilles) See Parent, D. P., 58 #5471
Cucurezeanu, Ion ★Probleme de aritmetică și teoria numerelor. (Romanian) [Problems of arithmetic and number theory]. 58 #5470
Davis, Martin (with Hersh, Reuben) Hilbert's tenth problem. (Bulgarian) (58 #21275)
(Decomps, Annette) See Parent, D. P., 58 #5471
(Delange, Hubert) See Parent, D. P., 58 #5471
(Deshouillers, Jean-Marc) See Parent, D. P., 58 #5471
(Dimovski, Iv.) See Davis, Martin; et al., (58 #21275)
(de Fermat, Pierre) See Postnikov, M. M., 58 #21906
Goldstein, Larry Joel ★Analytic number theory. 58 #16471
See also Adams, William W., 57 #16172
Halberstam, Heinz Some unsolved problems in higher arithmetic. 58 #10675
Hersh, Reuben See Davis, Martin, (58 #21275)
Honsberger, Ross ★Mathematical morsels. (58 #9950)
Ireland, Kenneth (with Rosen, Michael I.) ★Elements of number theory. Including an introduction to equations over finite fields. 58 #27701
(Lagrange, Jean) See Parent, D. P., 58 #5471
(Laméche-Gérardin, Khrya) See Parent, D. P., 58 #5471
LeVeque, William J. ★Fundamentals of number theory. 58 #465
Lüneburg, Heinz ★Vorlesungen über Zahlentheorie. 58 #10676
Marshall, Arthur Primes and Farey sequences. 58 #466
Narkiewicz, Władysław ★Teoria liczb. (Polish) [Number theory] 58 #27702
(Nicolas, Jean-Louis) See Parent, D. P., 58 #5471
Parent, D. P. ★Exercices de théorie des nombres. 58 #5471
(Pathiaux, Martine) See Parent, D. P., 58 #5471
Pieper, Herbert ★Zahlen aus Primzahlen. 58 #5472
(Pisot, Ch.) See Parent, D. P., 58 #5471
Postnikov, M. M. ★Теорема Ферма. (Russian) [Fermat's theorem] 58 #21906
Rademacher, Hans ★Lectures on elementary number theory. 58 #10677
(Rauzy, Gérard) See Parent, D. P., 58 #5471
Roberts, Joe ★Elementary number theory—a problem oriented approach. 58 #16472
Robinson, Geoffrey R. A Diophantine solution. 58 #10678
Rosen, Michael I. See Ireland, Kenneth, 58 #27701
Selberg, Sigmund Einige neuere Ergebnisse in der analytischen Zahlentheorie. 57 #3049
Serre, Jean-Pierre ★Cours d'arithmétique. 58 #16473
Smith, Cedric A. B. Looking-glass numbers. 57 #214
Urazbaev, B. M. ★Саялар теориясы. (Kazakh) [Number theory] 57 #16173
Wada, Hideo On number theory and computers. (Japanese) 58 #27703
(Waldschmidt, Michel) See Parent, D. P., 58 #5471
Wójcik, J. The application of the geometry of numbers to the representation of natural numbers as a sum of squares. (Polish) 58 #27704
Zagier, Don Bernard ★Die ersten 50 Millionen Primzahlen. 58 #467
Ziegenbalg, Jochen Gruppen von Nullteilern in Restklassenringen. 58 #10679

10-02 Advanced exposition (research surveys, etc.)

- Erdős, Paul Problèmes extrémaux et combinatoires en théorie des nombres. 58 #27705
Hirzebruch, F. (with Zagier, Don Bernard) ★The Atiyah-Singer theorem and elementary number theory. (58 #31291)
Narkiewicz, Władysław Some recent developments in three classical problems of number theory. 58 #10680
Riesel, Hans What's new at the prime number front? (Swedish. English summary) (57 #9637)
Zagier, Don Bernard See Hirzebruch, F., (58 #31291)

10-03 Historical

- (Bachet de Méziriac, Claude Gaspar) See Knobloch, Eberhard, (58 #21137)
Baker, Alan Some historical remarks on number theory. (58 #10138)
Bašmakova, I. G. ★Diophant and diophantische Gleichungen. 58 #5473
Berndt, Bruce C. Ramanujan's notebooks. (58 #15984)
(Birch, B. J.) See Davenport, Harold, (58 #27141a); Davenport, Harold, (58 #27141b); Davenport, Harold, (58 #27141c) and Davenport, Harold, (58 #27141d)
(Boll, Ludwig) See Bašmakova, I. G., 58 #5473
(Brun, Viggo) See Thue, Axel, (57 #46)
(Cantor, Georg) See Jentsch, Werner, (58 #4879)
Davenport, Harold ★The collected works of Harold Davenport. Vol. I. (58 #27141a)
★The collected works of Harold Davenport. Vol. II. (58 #27141b)
★The collected works of Harold Davenport. Vol. III. (58 #27141c)
★The collected works of Harold Davenport. Vol. IV. (58 #27141d)
(Diophantus of Alexandria) See Slavutin, E. I., (58 #4791)
Dobrovol'skii, O. V. (with Kahhorov, A.; Hodžiev, I.) Perfect and amicable numbers in the medieval East. (Russian. Tajiki summary) (58 #26779)
Drake, Stillman The rule behind "Mersenne's numbers". (58 #26870)
Edwards, Harold M. The background of Kummer's proof of Fermat's last theorem for regular primes. (57 #12066a)
Postscript to: "The background of Kummer's proof of Fermat's last theorem for regular primes" (Arch. History Exact Sci. 14 (1975), no. 3, 219-236). (57 #12066b)
(Eisenstein, Gotthold) See Weil, A., (58 #27769a)
Euler, Leonard ★Opera minora collecta. I. (58 #16060a)
★Opera minora collecta. II. (58 #16060b)
(de Fermat, Pierre) See Edwards, Harold M., (57 #12066a) and Edwards, Harold M., (57 #12066b)
(Fuss, Nicolaus) See Euler, Leonard, (58 #16060a) and Euler, Leonard, (58 #16060b)
(Fuss, P. H.) See Euler, Leonard, (58 #16060a) and Euler, Leonard, (58 #16060b)

- (Golovinskii, I. A.) See van der Waerden, B. L., (58 #4792)
(Grosswald, Emil) See Rademacher, Hans, (58 #21343a) and Rademacher, Hans, (58 #21343b)
(Halberstam, Heinz) See Davenport, Harold, (58 #27141a); Davenport, Harold, (58 #27141b); Davenport, Harold, (58 #27141c) and Davenport, Harold, (58 #27141d)
Hamburg, Robin Rider The theory of equations in the 18th century: the work of Joseph Lagrange. (58 #15922)
Hodžiev, I. See Dobrovol'skii, O. V.; et al., (58 #26779)
Jentsch, Werner Über ein Hallenser Manuskript der Dissertation Georg Cantors. (English summary) (58 #4879)
Kahhorov, A. See Dobrovol'skii, O. V.; et al., (58 #26779)
Knobloch, Eberhard Zur Überlieferungsgeschichte des Bachetschen Gewichtsproblems. (58 #21137)
(Kronecker, Leopold) See Weil, A., (58 #27769a)
Kummer, Ernst Eduard ★Collected papers. (57 #5650a)
★Collected papers. (57 #5650b)
See also Edwards, Harold M., (57 #12066a) and Edwards, Harold M., (57 #12066b)
Kuzel', O. V. ★Розвиток поняття про число. Ознаки подільності. Досконалі числа. (Ukrainian) [Development of the concept of number. Divisibility criteria. Perfect numbers] 57 #215
(Lagrange, Joseph Louis) See Hamburg, Robin Rider, (58 #15922)
(Manin, Ju. I.) See Weil, A., (58 #27769b)
Mel'nikov, I. G. The method of infinite descent. (Russian) (58 #15895)
(Nagell, Trygve) See Thue, Axel, (57 #46)
Ozgovva, E. P. ★Развитие теории чисел в России. (Russian) [The development of number theory in Russia] 57 #5879
Rademacher, Hans ★Collected papers of Hans Rademacher. Vol. I. (German) (58 #21343a)
★Collected papers of Hans Rademacher. Vol. II. (English, German and Hungarian) (58 #21343b)
(Ramanujan, Srinivasa) See Berndt, Bruce C., (58 #15984)
Ribenoim, Paulo Recent results on Fermat's last theorem. 57 #3050
(Rogers, C. A.) See Davenport, Harold, (58 #27141a); Davenport, Harold, (58 #27141b); Davenport, Harold, (58 #27141c) and Davenport, Harold, (58 #27141d)
Scriba, Christoph J. Zur Entwicklung der additiven Zahlentheorie von Fermat bis Jacobi. 58 #16474
(Selberg, Atle) See Thue, Axel, (57 #46)
(Selberg, Sigmund) See Thue, Axel, (57 #46)
(Siegel, Carl Ludwig) See Thue, Axel, (57 #46)
Skuratov'skii, M. V. The development of the fundamental identity of the theory of prime numbers. (Ukrainian) (58 #21186)
Slavutin, E. I. The algebra of Diophantos and its sources. (Russian) (58 #4791)
Taisbak, Christian Marinus ★Division and logos. (58 #28)
Takagi, Shigeo Cryptarithmic theory in Japan. (Japanese) (58 #21036)
Thue, Axel ★Selected mathematical papers. (57 #46)
van der Waerden, B. L. Pell's equation in the mathematics of the Greeks and Indians. (Russian) (58 #4792)
Weil, A. ★Elliptic functions according to Eisenstein and Kronecker. (58 #27769a)
★Эллиптические функции по Эйзенштейну и Кронекеру. (Russian) [Elliptic functions according to Eisenstein and Kronecker] (58 #27769b)
See also Kummer, Ernst Eduard, (57 #5650a) and Kummer, Ernst Eduard, (57 #5650b)
Zagier, Don Bernard ★Die ersten 50 Millionen Primzahlen. (58 #467)
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Rademacher, Hans See Rademacher, Hans, (58 #21343a) and Rademacher, Hans, (58 #21343b)
Collected papers:
Rademacher, Hans See Rademacher, Hans, (58 #21343a) and Rademacher, Hans, (58 #21343b)
Collected works:
Davenport, Harold See Davenport, Harold, (58 #27141a); Davenport, Harold, (58 #27141b); Davenport, Harold, (58 #27141c) and Davenport, Harold, (58 #27141d)

10-04 Explicit machine computation and programs (not the theory of computation or programming)

- Aleksandrov, A. G. Computer investigation of continued fractions. (Russian) (58 #21917)
Bateman, Paul T. (with Purdy, George B.; Wagstaff, Samuel S., Jr.) Some numerical results on Fekete polynomials. 58 #468
Bauer, Jean-Pierre Recherches autour du calcul d'un nombre premier en fonction des nombres premiers qui le précèdent. 58 #469
Bays, Carter (with Hudson, Richard H.) On the fluctuations of Littlewood for primes of the form $4n \pm 1$. 57 #16174
(with Hudson, Richard H.) Details of the first region of integers x with $\pi_{3,2}(x) < \pi_{3,1}(x)$. 57 #16175
Brillhart, John Table errata: List of prime numbers from 1 to 10,006,721 (reissue, Hafner, New York, 1956) by D. N. Lehmer. 58 #16475
Chaitin, Gregory J. (with Schwartz, Jacob T.) A note on Monte Carlo primality tests and algorithmic information theory. (58 #4629)
Evans, J. W. See Wisoncombe, W. J., (58 #13626)
Ferguson, H. R. P. Arithmetic criteria, $GL(n, \mathbb{Z}[1/n!])$ and some experiments. 58 #21907
Heimer, Richard L. (with Langenbach, Herbert) The stamp problem. 58 #5474a
See also Kierstead, Friend H., Jr., 58 #5474b
Holte, R. See Williams, H. C., (57 #16184)
Hudson, Richard H. See Bays, Carter, 57 #16174 and Bays, Carter, 57 #16175

- Kierstead, Friend H., Jr. Comment: "The stamp problem" (J. Recreational Math 7 (1974), no. 3, 235-250) by Richard L. Heimer and Herbert Langenbach. **58** #5474b
- Langenbach, Herbert See Heimer, Richard L. **58** #5474a and Kierstead, Friend H., Jr. **58** #5474b
- Lehmer, D. H. Exploitation of parallelism in number theoretic and combinatorial computation. **58** #27706
- (Lehmer, D. N.) See Brillhart, John. **58** #16475
- Malysev, A. V. The application of an electronic computer to the proof of a certain conjecture of Minkowski from the geometry of numbers. (Russian) (**58** #27801)
- Marko, V. F. (with Slon'ovskii, R. V.) Numerical realization of a method for the solution of a system of linear Diophantine equations. (Russian. English summary) **58** #16476
- Miller, Gary L. Riemann's hypothesis and tests for primality. **58** #470b
- Riemann's hypothesis and tests for primality. **58** #470a
- Purdy, George B. See Bateman, Paul T.; et al. **58** #468
- Rabin, Michael O. Probabilistic algorithms. (**57** #4603)
- Riesel, Hans What's new at the prime number front? (Swedish. English summary) **57** #9637
- ★En bok om primtal. (Swedish) [A book on prime numbers] **58** #10681
- Schwartz, Jacob T. See Chaitin, Gregory J. **58** #4629
- Shantaram, R. See Stevens, R. S. (**58** #10714)
- Shippee, D. E. Four new factors of Fermat numbers. (**57** #12359)
- Slon'ovskii, R. V. See Marko, V. F. **58** #16476
- Solovay, Robert M. (with Strassen, Volker) Erratum: "A fast Monte-Carlo test for primality" (SIAM J. Comput. 6 (1977), no. 1, 84-85). (**57** #5885)
- Stevens, R. S. (with Shantaram, R.) Computer-generated van der Waerden partitions. (**58** #10714)
- Strassen, Volker See Solovay, Robert M. (**57** #5885)
- Uchiyama, Saburō See Yorinaga, Masataka. (**58** #570)
- Wagstaff, Samuel S., Jr. See Bateman, Paul T.; et al. **58** #468
- Williams, H. C. (with Holte, R.) Some observations on primality testing. (**57** #16184)
- Wiscombe, W. J. (with Evans, J. W.) Exponential-sum fitting of radiative transmission functions. (**58** #13626)
- Yorinaga, Masataka (with Uchiyama, Saburō) Notes on a conjecture of P. Erdős. II. (**58** #570)
- Numerical investigation of some equations involving Euler's ϕ -function. **58** #10682
- Zagier, Don Bernard ★Die ersten 50 Millionen Primzahlen. (**58** #467)
- 10-06 Collections of papers; proceedings of conferences
- (Bondarenko, V. M.) See Quadratic forms and polyquivers. (**57** #16339)
- (Bredihin, B. M.) See Number theory: collection of studies in additive number theory. **58** #5475
- (Nathanson, Melvyn B.) See Number Theory Day. **57** #216
- (Nikol'skii, S. M.) See Number theory, mathematical analysis and their applications. (**58** #20943)
- (Orzech, Grace) See Conference: Quadratic Forms. **57** #16176
- (Skorobogat'ko, V. Ja.) See Continued fractions and their applications. **58** #21908
- (Vinogradov, I. M.) See Number theory, mathematical analysis and their applications. (**58** #20943)
- Additive number theory See Number theory: collection of studies in additive number theory. **58** #5475
- Birthday: Vinogradov, I. M. See Number theory, mathematical analysis and their applications. (**58** #20943)
- Calculators See Utilisation des calculateurs en mathématiques pures. (**57** #15821)
- Combinatorial theory See Experimental number theory, combinatorial theory and computers. **58** #27707
- Conference: Number Theory See Number Theory Day. **57** #216
- Quadratic Forms ★Conference on Quadratic Forms—1976. **57** #16176
- Utilisation des Calculateurs en Mathématiques Pures See Utilisation des calculateurs en mathématiques pures. (**57** #15821)
- Continued fractions and their applications ★Цепные дроби и их применения. (Russian) [Continued fractions and their applications] **58** #21908
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- Kingston, Ont. See Conference: Quadratic Forms. **57** #16176
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- Mathematical analysis See Number theory, mathematical analysis and their applications. (**58** #20943)
- New York See Number Theory Day. **57** #216
- Number theory See Séminaire: Théorie des Nombres. **58** #21909
- Number theory: collection of studies in additive number theory ★Теория чисел. Сборник исследований по аддитивной теории чисел. (Russian) [Number theory: A collection of studies in additive number theory] **58** #5475
- Number Theory Day ★Number theory day. **57** #216
- Number theory, mathematical analysis and their applications ★Теория чисел, математический анализ и их приложения. (Russian) [Number theory, mathematical analysis and their applications] (**58** #20943)
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- (Adelson-Velsky, G. M.) See Construction and identification of graphs, (58 #27590)
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 Construction and identification of graphs ★On construction and identification of graphs. (58 #27590)

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- (Bahurin, Ju. A.) See Bourbaki, Nicolas, 58 #28083b
 Bourbaki, Nicolas ★Éléments de mathématique. Fasc. XXXVII. Groupes et algèbres de Lie. Chapitre II: Algèbres de Lie libres. Chapitre III: Groupes de Lie. 58 #28083a
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17-02 Advanced exposition (research surveys, etc.)

- McCrimmon, Kevin Jordan algebras and their applications. 57 #6115
 Šestakov, I. P. See Ževlakov, K. A.; et al., 57 #16365
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17-03 Historical

17-04 Explicit machine computation and programs (not the theory of computation or programming)

- Michel, Jean Calculs dans les algèbres de Lie libres: la série de Hausdorff et le problème de Burnside. 57 #6116

17-06 Collections of papers; proceedings of conferences

- Algebra** ★Algebra, 21. (Spanish) **58** #16793
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 17A10 Commutative power-associative
 17A15 Noncommutative Jordan algebras

- Longman, Joyce** On generalizations of alternative algebras. **57** #9764
Loustau, J. A. Errata: "The structure of algebraic Jordan algebras without nonzero nilpotent elements" (Comm. Algebra 4 (1976), no. 11, 1045-1070). **57** #6117
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Osborn, J. Marshall Modules over nonassociative rings. **58** #22187
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Wisbauer, Robert Zentrale Bimoduln und separable Algebren. **58** #11041

17A20 Flexible algebras

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Wene, Gregory P. An example of a flexible, Jordan-admissible algebra of current use in physics. **(58** #19908)

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17A30 Algebras satisfying other identities

- Aneva, B. L.** (with Mihov, S. G.; Stojanov, D. C.) Properties of representations of the conformal superalgebra. (Russian. English summary) **(58** #32492)
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Longman, Joyce (with Rich, Michael) Scalar dependent algebras in the alternative sense. **(58** #22216)
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- Griffiths, H. B. Corrigendum: "An exact homology sequence induced by a Galois connection" (Proc. London Math. Soc. (3) 32 (1976), no. 1, 101-116). (57 #12650)
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- Ascione, Judith A. (with Havas, George; Leedham-Green, C. R.) A computer aided classification of certain groups of prime power order. (57 #9808a)
- (with Havas, George; Leedham-Green, C. R.) Corrigendum: "A computer aided classification of certain groups of prime power order" (Bull. Austral. Math. Soc. 17 (1977), no. 2, 257-274). (57 #9808b)
- (with Havas, George; Leedham-Green, C. R.) Microfiche supplement to "A computer aided classification of certain groups of prime power order" (Bull. Austral. Math. Soc. 17 (1977), no. 2, 257-274; ibid. 17 (1977), no. 2, 317-319). (57 #9808c)
- Cato, Craig Addendum to: "The orders of the known simple groups as far as one trillion" (Math. Comp. 31 (1977), no. 138, 574-577). (57 #6178)
- Fontet, Max Calcul de centralisateur d'un groupe de permutations. (57 #16388)
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20Nxx Other generalizations of groups

20N05 Loops, quasigroups [See also 05Bxx.]

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20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)

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20N15 n -ary systems

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22-XX TOPOLOGICAL GROUPS, LIE GROUPS [For transformation groups, see 54H15, 57Exx, 58-XX. For abstract harmonic analysis, see 43-XX.]

22-01 Elementary exposition (collegiate level)

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- Barut, Asim O. (with Rączka, Ryszard) ★Theory of group representations and applications. (**58** #14480)
- Bourbaki, Nicolas ★Éléments de mathématique. Fasc. XXXVII. Groupes et algèbres de Lie. Chapitre II: Algèbres de Lie libres. Chapitre III: Groupes de Lie. (**58** #28083a)
 ★Группы и алгебры Ли. (Russian) [Lie groups and algebras] (**58** #28083b)
- Dieudonné, Jean ★Éléments d'analyse. Tome VI. Chapitre XXII. (**58** #29825a)
 ★Treatise on analysis. Vol. VI. (**58** #29825b)
- (Hilbert, David) See Vanžura, Jiří, **58** #981
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- (Kirillov, A. A.) See Bourbaki, Nicolas, (**58** #28083b)
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- (Macdonald, I. G.) See Dieudonné, Jean, (**58** #29825b)
- Mackey, George W. ★Induced representations of groups and quantum mechanics. **58** #22373
- Naimark, M. A. ★Теория представлений групп. (Russian) [Representation theory of groups] **58** #28245
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22-02 Advanced exposition (research surveys, etc.)

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- Ikeda, Mineo (with Nishino, Yoshio) Lie groups and their applications. V. (Japanese) **58** #982a
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- (Kurke, Herbert) See Dieudonné, Jean, (**57** #14004d)
- Nishino, Yoshio See Ikeda, Mineo, **58** #982a and Ikeda, Mineo, **58** #982b
- (Pfister, Gerhard) See Dieudonné, Jean, (**57** #14004d)
- (Roczen, Marko) See Dieudonné, Jean, (**57** #14004d)
- Wallach, Nolan R. ★Harmonic analysis on homogeneous spaces. (**58** #16978)

22-03 Historical

- (Ackerman, Michael) See Sophus Lie's 1880 transformation group paper, (**57** #49)
- Dieudonné, Jean History of harmonic analysis. (Russian) (**58** #1937)
- (Hermann, Robert) See Sophus Lie's 1880 transformation group paper, (**57** #49)
- (Lie, Sophus) See Sophus Lie's 1880 transformation group paper, (**57** #49)
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- Sophus Lie's 1880 transformation group paper ★Sophus Lie's 1880 transformation group paper. (**57** #49)

22-04 Explicit machine computation and programs (not the theory of computation or programming)

22-06 Collections of papers; proceedings of conferences

- (Barut, Asim O.) See Group theory in non-linear problems, (**57** #15807)
- (Boon, M.) See Group theoretical methods in physics, (**57** #11993)
- (Janner, A.) See Group theoretical methods in physics, (**57** #11993)
- (Janssen, T.) See Group theoretical methods in physics, (**57** #11993)
- (Rossmann, Wulf) See Lie theories and their applications, **57** #16454
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- Group Theoretical Methods in Physics See Group theoretical methods in physics, (**57** #11993)
- Function spaces See Symposia Mathematica, (**57** #3743)
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- Lie theories and their applications ★Lie theories and their applications. **57** #16454
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22Axx Topological algebraic systems [For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 46L05.]

22A05 Structure of general topological groups

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- Petit, B. Endomorphismes du tore, g -mesures et schémas de Bernoulli. 58 #28436
- (Phillips, E.) See Ergodic theory, 58 #6177
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- Saleski, Alan An entropy-theoretic proof of the Sucheston zero-one law. 57 #590
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- Affine transformations on the space of probability measures. 58 #1093
- Sinai, Ja. G. Construction of the dynamics for one-dimensional systems of statistical mechanics. (Russian. English summary) (57 #15115)
- ★Introduction to ergodic theory. 58 #28437
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- Ergodic theory ★Ergodic theory. 58 #6177
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- Théorie ergodique ★Théorie ergodique. (57 #14084)
- 28A70 Invariant measures, Haar measure [See also 43A05.]
- de Brucq, Denis (with Lisambert, François) Calcul de mesure de Haar dans des sous-groupes fermés d'algèbres de dimension finie. (English summary) (58 #1003)
- Chuaqui, Rolando B. A semantical definition of probability. 58 #11333
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- Ito, Yūji On invariant measures. (Japanese) 58 #6178
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- Kallman, Robert R. Only trivial Borel measures on S_∞ are quasi-invariant under automorphisms. 58 #17049
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- Ryll-Nardzewski, Czesław (with Telgársky, Rastislav) The nonexistence of universal invariant measures. 57 #6372
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- Fast, Henryk See Davies, Roy O., 58 #11336
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- Gardner, R. J. (with Hawkes, J.) Majorizing sequences and approximation. (58 #1890)
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- Ivanov, L. D. ★Вариации множеств и функций. (Russian) [Variations of sets and functions] (57 #16498)
- Michener, Kim E. Weak convergence of the area of nonparametric L_1 surfaces. 57 #6373
- Sjölin, Per An inequality for convex curves in the plane. 57 #3356
- (Vituskin, A. G.) See Ivanov, L. D., (57 #16498)

28A99 Miscellaneous topics

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- Roventa, E. Fuzzy measures. (58 #21629a)
- Sequences of fuzzy sets. (58 #21629b)

30-XX FUNCTIONS OF A COMPLEX VARIABLE [For analysis on manifolds, see 58-XX.]

- Reich, Axel Universelle Werteverteilung von Eulerprodukten. (58 #27862)

30-01 Elementary exposition (collegiate level)

- Abian, Alexander Hurwitz' theorem implies Rouché's theorem. 57 #12823
- Aleksandrov, I. A. (with Sobolev, V. V.) ★Лекции по теории функций комплексного переменного. Вып. 1. (Russian) [Lectures on the theory of functions of a complex variable. No. 1] 57 #12824
- Gjunter, N. M. (with Kuz'min, R. O.) ★Aufgabensammlung zur höheren Mathematik. Band II. (58 #26628)
- Gray, J. D. (with Morris, Sidney A.) When is a function that satisfies the Cauchy-Riemann equations analytic? 57 #9940
- Jänich, Klaus ★Einführung in die Funktionentheorie. 57 #12825
- Kečkić, Jovan D. See Mitrinović, Dragoslav S., 57 #9941
- (Kopiecki, Ryszard) See Šabat, B. V., 58 #28443b
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- Lang, Serge ★Complex analysis. 57 #16545
- (Lindner, Krystyna) See Šabat, B. V., 58 #28443b
- Markušević, A. I. ★Curvas maravillosas. (Spanish) [Remarkable curves] (57 #6530)
- (with Markušević, L. A.) ★Введение в теорию аналитических функций. (Russian) [Introduction to the theory of analytic functions] 58 #17050
- Markušević, L. A. See Markušević, A. I., 58 #17050
- Mitrinović, Dragoslav S. (with Kečkić, Jovan D.) ★Cauchyjev račun ostataka sa primenama. (Serbo-Croatian) [Cauchy's calculus of residues with applications] 57 #9941
- Morris, Sidney A. See Gray, J. D., 57 #9940
- Pólya, George (with Szegő, Gábor) ★Задачи и теоремы из анализа. Часть первая. (Russian) [Problems and theorems in analysis. Part one] (58 #26630)
- (Raikov, D. A.) See Pólya, George; et al., (58 #26630)
- Rubel, Lee A. Errata: "How to use Runge's theorem" (Enseignement Math. (2) 22 (1976), no. 3-4, 185-190). 57 #9942
- Rühs, Fritz ★Funktionentheorie. 58 #6179
- Šabat, B. V. ★Введение в комплексный анализ. (Russian) [Introduction to complex analysis] 58 #28443a
- ★Wstęp do analizy zespolonej. (Polish) [Introduction to complex analysis] 58 #28443b
- ★Введение в комплексный анализ. Часть I. Функции одного переменного. (Russian) [Introduction to complex analysis. Part I. Functions of a single variable] 58 #28443c
- ★Введение в комплексный анализ. Часть II. Функции нескольких переменных. (Russian) [Introduction to complex analysis. Part II. Functions of several variables] (58 #28443d)
- Sobolev, V. V. See Aleksandrov, I. A., 57 #12824
- Szegő, Gábor See Pólya, George, (58 #26630)
- (Vega, Carlos) See Markušević, A. I., (57 #6530)

30-02 Advanced exposition (research surveys, etc.)

- Aleksandrov, I. A. ★Параметрические продолжения в теории однолистных функций. (Russian) [Parametric continuations in the theory of univalent functions] 58 #1099
- Babenko, K. I. ★The theory of extremal problems for univalent functions of class S. 58 #1100
- (Bilić, V. I.) See Metric questions of the theory of functions and mappings, 58 #28444
- Duren, Peter L. Coefficients of univalent functions. 57 #9943
- Fefferman, Charles Harmonic analysis and H^p spaces. (57 #989)
- Hayashi, Mikihiro On approximation by rational functions. (Japanese) (57 #17291)
- (Ibragimov, I. I.) See Special questions in the theory of functions, 57 #3357
- Lang, Serge ★Complex analysis. (57 #16545)
- (Noonan, J. W.) See Babenko, K. I., 58 #1100
- (Pommerenke, Christian) See Problems in complex function theory, 58 #1101
- (Suvorov, G. D.) See Metric questions of the theory of functions and mappings, 58 #28444
- Tamml, Olli ★Extremum problems for bounded univalent functions. 58 #11337
- Tamrazov, P. M. ★Гладкости и полиномиальные приближения. (Russian) [Smoothnesses and polynomial approximations] (58 #22576)
- Complex function theory See Problems in complex function theory, 58 #1101
- Mappings See Metric questions of the theory of functions and mappings, 58 #28444
- Metric questions in the theory of functions and mappings ★Метрические вопросы теории функций и отображений. (Russian) [Metric questions of the theory of functions and mappings] 58 #28444

28A75 Length, area, volume, other geometric measure theory [See also 26A63, 49F20.]

- Boardman, E. The problem of subsets of finite positive measure in the space of compact subsets of $[0, 1]$. 58 #22488
- Davies, Roy O. (with Fast, Henryk) Lebesgue density influences Hausdorff measure; large sets surface-like from many directions. 58 #11336

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30-03 Historical

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 (Bogoljubov, O. M.) See **History of national mathematics in four volumes**, (58 #26682)
 Dobrovolskii, V. O. From the history of the Riemann problem. (Russian) (58 #21254)
 Gray, J. D. (with Morris, Sidney A.) When is a function that satisfies the
 Cauchy-Riemann equations analytic? (57 #9940)
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 Neuschwander, Erwin Studies in the history of complex function theory. I. The
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 ★Collected papers. (58 #21342)
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 (Štokalo, I. Z.) See **History of national mathematics in four volumes**, (58 #26682)
 Žukovskii, V. M. The origin and development of the method of quasiconformal
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History of mathematics See **History of national mathematics in four volumes**,
 (58 #26682)
History of national mathematics in four volumes ★История отечественной математики
 в четырех томах. Том 4. Книжки 1 и 2: 1917-1967. (Russian) [History of national
 mathematics in four volumes. Vol. 4. Books 1 and 2: 1917-1967] (58 #26682)

30-04 Explicit machine computation and programs (not the theory of
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30-06 Collections of papers; proceedings of conferences

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 (57 #3805)
 (Bavrin, I. L.) See **Mathematical analysis and the theory of functions**, 58 #22492
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 (Volkonskii, V. A.) See **Quasiconformal mappings and the approximation of functions**,
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 (Volkovskii, L. I.) See **Questions in mathematics**, 57 #6377
 (Weinacht, Richard J.) See **Function theoretic methods in differential equations**,
 57 #593

All-Union Symposium:

Theory of the Approximation of Functions in the Complex Domain ★Всероссийный
 симпозиум по теории аппроксимации функций в комплексной области
 (тезисы докладов, Уфа, май 1976 г.). (Russian) [All-Union Symposium on the
 Theory of the Approximation of Functions in the Complex Domain (Abstracts of
 papers, Ufa, May 1976)] 57 #6374

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 Functions in the Complex Domain**, 57 #6374 and **Quasiconformal mappings and the
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Mathematical analysis and the theory of functions ★Математический анализ и теория
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 7] 58 #22492

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57 #6376 and **Proceedings: Finnish-Polish Summer School in Complex Analysis**,
 57 #16546

Problems in modern function theory ★Некоторые вопросы современной теории

функций. Материалы конференции. (Russian) [Problems in modern function
 theory. Proceedings of a Conference] (57 #15813)

Proceedings:

Finnish-Polish Summer School in Complex Analysis ★Proceedings of the First

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30A02 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

- Coroi-Nedelcu, Mariana On the theory of linear equations with spatial derivatives. 58 #17051
- Disney, S. A. R. (with Gray, J. D.; Morris, Sidney A.) Is a function that satisfies the Cauchy-Riemann equations necessarily analytic? 57 #594
- Gorlenko, S. V. Generalization of a theorem on the points of continuity of a derivative and its application in the theory of analytic functions. (Russian) 57 #16547
- Gray, J. D. See Disney, S. A. R.; et al., 57 #594
- Morris, Sidney A. See Disney, S. A. R.; et al., 57 #594
- Zatulovskaja, K. D. A generalization of Morera's theorem. (Russian) 58 #17052

30A04 Inequalities in the complex domain

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- Paharëva, N. O.** (with Bélova, M. M.) Some complete systems of p -analytic functions. (Russian. English summary) 57 #3401
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- 30A95 Discrete analytic functions**
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- Čumakov, S. A.** See **Fuksman, N. A.**; et al., 57 #12868
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- Edenhofer, J. Analytische hyperkomplexe Funktionen und verallgemeinerte Cauchy'sche Integralforneln. **58** #22595
- Gilbert, R. Pertsch See Begehr, Heinrich, **57** #657
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- Iľhamov, Z. Reducible partial differential equations with the operator L_Φ in rings of Study and Boole complexes. (Russian. Uzbek summary) (**58** #29058)
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- de Branges, Louis (with Trutt, David) Charlier spaces of entire functions. (**58** #3010)
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- Lund, Bruce Isomorphisms of function algebras and algebras of analytic functions. (**58** #7096)
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- Nikoľ'skii, N. K. ★ Избранные задачи весовой аппроксимации в спектральном анализе. (Russian) [Selected problems of weighted approximation and spectral analysis] (**57** #7133a)
★ Selected problems of weighted approximation and spectral analysis. (**57** #7133b)
- Pranger, Walter Bounded sections on a Riemann surface. (**58** #2306)
- von Renteln, Michael Rings of entire functions with weighted Hadamard multiplication. **57** #6462
- Roberts, James W. (with Stoll, Manfred) Correction to the paper: "Prime and principal ideals in the algebra N^{**} " (Arch. Math. (Basel) **27** (1976), 387-393). **58** #11454
- Rosay, Jean-Pierre Sur la cohérence de certains anneaux de fonctions. **58** #28549
- Roșculeț, Marcel N. ★ Funcții monogene pe algebre comutative. (Romanian) [Monogenic functions on commutative algebras] **57** #3402
- Rosenbloom, Paul C. Analytic geometry of fields. (**58** #7053)
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- Sadikov, N. M. Crossed products of the algebra $A(\Delta)$. (Russian. Azerbaijani and English summaries) (**57** #7184)
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- Uluçay, C.** Converse of the maximum modulus theorem and rings of continuous complex functions. (Turkish summary) **(58 #6218)**
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- Williams, David L.** See **Shields, Allen L.**, **(58 #7053)**
- Wogen, Warren R.** See **Cima, Joseph A.**, **(58 #6281)**
- Zame, William R.** Uniform algebras on plane domains. **(58 #12391)**
- Znamenskii, S. V.** The solvability of differential equations of infinite order in spaces of holomorphic functions, a theorem of Leont'ev, and a formula of Vostrecov. (Russian) **(57 #16774)**
- Proceedings of the Steklov Institute of Mathematics** See **Nikol'skii, N. K.**, **(57 #7133b)**

31-XX POTENTIAL THEORY [For probabilistic potential theory, see 60J45.]

31-01 Elementary exposition (collegiate level)

- Drasin, David** An introduction to potential theory and meromorphic functions. **(58 #11455)**
- Meinhold, Peter** (with Miltzaff, Gerhard) ★Feld- und Potentialtheorie. **(57 #9984)**
- Miltzaff, Gerhard** See **Meinhold, Peter**, **(57 #9984)**
- Wildenhain, Günther** Über Wesen, Geschichte und Perspektive der Potentialtheorie. (Russian, English and French summaries) **(57 #3405)**

31-02 Advanced exposition (research surveys, etc.)

- Bauer, Heinz** Aspects of modern potential theory. **(58 #22599)**
See also **Ritter, Gunter**, **(58 #17144)**
- Helms, Lester L.** ★Introduction to potential theory. **(57 #659)**
- Ritter, Gunter** ★Minimum principle and maximality. **(58 #17144)**

31-03 Historical

- (Dinghas, Alexander) See **Hayman, Walter Kurt**, **(58 #11456)**
- Hayman, Walter Kurt** Beiträge von Alexander Dinghas zur Theorie der subharmonischen Funktionen. **(58 #11456)**
- (Poincaré, Henri) See **Sraer, M. G.**, **(57 #6463)**
- (Pompeiu, Dimitrie) See **Rosculet, Marcel N.**, **(58 #10216)**
- Rosculet, Marcel N.** Dimitrie Pompeiu. (Romanian) **(58 #10216)**
- Sraer, M. G.** H. Poincaré's methods in potential theory. (Russian) **(57 #6463)**

31-04 Explicit machine computation and programs (not the theory of computation or programming)

31-06 Collections of papers; proceedings of conferences

- (Aleksiev, A. S.) See **Mathematical problems in geophysics**, **(57 #5543)**
- (Hirsch, Francis) See **Séminaire: Théorie du Potentiel**, **(58 #22600)**
- (Lavrent'ev, M. M.) See **Mathematical problems in geophysics**, **(57 #5543)**
- (Mokobodzki, Gabriel) See **Séminaire: Théorie du Potentiel**, **(58 #22600)**
- Mathematical problems in geophysics** ★Математические проблемы геофизики. Вып. 4. (Russian) [Mathematical problems in geophysics. No. 4] **(57 #5543)**
- Paris** See **Séminaire: Théorie du Potentiel**, **(58 #22600)**
- Potential theory** See **Séminaire: Théorie du Potentiel**, **(58 #22600)**
- Séminaire:**

Théorie du Potentiel ★Séminaire de Théorie du Potentiel, Paris, No. 2. **(58 #22600)**

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

- Abi-Khuzam, Faruk F.** An Abelian theorem for a class of subharmonic functions. **(57 #660)**
On the growth of the integral means of subharmonic functions of order less than one. **(58 #1149)**
- Aksent'ev, L. A.** Estimates for harmonic functions and their application to inverse boundary value problems. (Russian) **(58 #17145)**
- Anandam, Victor** Sur une propriété de la fonction harmonique. **(58 #11457)**
- Baernstein, Albert, II** Regularity theorems associated with the spread relation. **(58 #17091)**
- Belov, I. S.** Subharmonicity of powers of the absolute value of the gradient of a harmonic function. (Russian) **(58 #28551)**
- (Borell, Christer) See **Essén, Mats R.**, **(57 #6464)**
- Bratišev, A. V.** (with Korobeinik, Ju. F.) Some characteristics of the growth of subharmonic functions. (Russian) **(58 #11458)**
- Drasin, David** An introduction to potential theory and meromorphic functions. **(58 #11455)**
- Essén, Mats R.** ★The cos $\pi\lambda$ theorem. **(57 #6464)**
(with Hayman, Walter Kurt; Huber, A.) Slowly growing subharmonic functions. I. **(57 #16630)**
- Farag, Savki Hašem** Harmonic and subharmonic functions of a discrete complex argument. (Russian) **(58 #22601)**
- Farooqui, A. S.** A complete set of orthonormal harmonic functions. **(58 #22703)**
- Hayman, Walter Kurt** See **Essén, Mats R.**; et al., **(57 #16630)**
- Heifce, A. I.** Subharmonic functions of completely regular growth in the half-plane. (Russian) **(58 #1188)**
- Huber, A.** See **Essén, Mats R.**; et al., **(57 #16630)**
- Kamthan, P. K.** An application of Riesz's decomposition theorem. **(58 #6285)**

- Kobayashi, Shōji** On local harmonic majorants of subharmonic functions. **(58 #6286)**
- Kolodii, I. M.** The capacity of sets. (Ukrainian. Russian summary) **(58 #28552)**
- Korobeinik, Ju. F.** See **Bratišev, A. V.**, **(58 #11458)**
- Krasičkov-Ternovskii, I. F.** Estimates for a subharmonic difference of subharmonic functions. I. (Russian) **(58 #22602)**
- Nakai, Mitsuru** (with Segawa, Shigeo) Tôki covering surfaces and their applications. **(57 #16575)**
- Petersen, Karl Endel** ★Brownian motion, Hardy spaces and bounded mean oscillation. **(58 #31383)**
- Port, Sidney C.** (with Stone, Charles J.) ★Brownian motion and classical potential theory. **(58 #11459)**
- Riedel, M.** Some theorems of the Pragné-Lindelöf's theory for subharmonic functions. **(58 #11366)**
- Ruscheweyh, Stephan** Hardy spaces of λ -harmonic functions. **(58 #6258)**
- Schinzal, Andrzej** An analogue of Harnack's inequality for discrete superharmonic functions. **(58 #6287)**
- Schmid, Hans Joachim** Interpolation of harmonic functions. **(58 #3303)**
- Segawa, Shigeo** See **Nakai, Mitsuru**, **(57 #16575)**
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31A10 Integral representations

- Dahlberg, Björn E. J.** On the radial boundary values of subharmonic functions. **(57 #661)**
- Kapanadze, Dž. V.** S. Ja. Havinson's conjectures. (Russian) **(57 #9985)**
- Sen, S.** On generalised Poisson's integral and Dirichlet problem. **(58 #22582)**

31A15 Potentials and capacity, harmonic measure, extremal length

- Anger, Bernd** Representation of capacities. **(57 #6465)**
- Ciru'skii, A. V.** (with Nikonova, F. I.) The solvability of the inverse problem of logarithmic potential in finite form. (Russian) **(58 #22603)**
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- Derrick, William R.** Extremal length and Rayleigh's reciprocal theorem. **(58 #1189)**
- Essén, Mats R.** A generalization of Beurling's estimate of harmonic measure. **(58 #1190)**
- Fuka, Jaroslav** (with Král, Joseph) Analytic capacity and linear measure. **(58 #11370)**
- Gaier, Dieter** Hölder-Stetigkeit und BMO des logarithmischen Potentials. **(57 #16631)**
- Gusman, S. Ja.** Series of holomorphic forms and composite potentials. (Russian) **(58 #22604)**
- Huckemann, Friedrich** An extremal problem for harmonic measure. **(58 #17146)**
- Jaswon, M. A.** (with Symm, G. T.) ★Integral equation methods in potential theory and elastostatics. **(58 #17147)**
- Král, Joseph** See **Fuka, Jaroslav**, **(58 #11370)**
- Lanzendorf, Margot** Über stetige Funktionen, die sich als Wärmepotentiale darstellen lassen. **(58 #11460)**
- Maitani, Fumio** On the boundary behavior of harmonic measures. **(58 #11461)**
- Nikonova, F. I.** (with Ciru'skii, A. V.) On the question of the boundary singular points of a logarithmic potential. (Russian) **(58 #22605)**
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- Pallmann, M. S.** On level curves of Green's functions. **(57 #613)**
- Petrova, V. A.** The approximate determination of the logarithmic potential of a single layer with electrostatic density. (Russian) **(57 #16632)**
- Port, Sidney C.** (with Stone, Charles J.) ★Brownian motion and classical potential theory. **(58 #11459)**
- Šahverdjan, A. Ju.** Harmonic functions that are continuous on a singular set of zero capacity. (Russian. Armenian and English summaries) **(58 #11462)**
- Stone, Charles J.** See **Port, Sidney C.**, **(58 #11459)**
- Strahov, V. N.** On the theory of the logarithmic potential in the case of variable density of the perturbing masses. (Russian) **(58 #22606)**
- Suljandzga, P. B.** On the question of the analytic continuation of the logarithmic potential. (Russian) **(58 #17148)**
- Symm, G. T.** See **Jaswon, M. A.**, **(58 #17147)**
- Watson, N. A.** Corrigendum: "Green functions, potentials, and the Dirichlet problem for the heat equation" (Proc. London Math. Soc. (3) 33 (1976), 251-298). **(58 #17149)**
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31C15 Potentials and capacities

Borghi, Osvaldo See **Zó, Felipe J.**, (58 #28566)

Dellacherie, Claude (with Meyer, Paul-André) ★Probabilités et potentiel. (58 #7757)

Forst, Gunnar Familles résolventes de mesures. (57 #16641)

A characterization of potential kernels on the positive half-line. (57 #671)

Graifer, L. B. (with Gusman, S. Ja.) Properties of certain classes of differential form on Riemannian spaces. (Russian) (58 #1206)

Gusman, S. Ja. See **Graifer, L. B.**, (58 #1206)

Isakov, V. M. Uniqueness theorems for the inverse problem of potential theory. (Russian) (58 #17165)

Lawrynowicz, Julian Electromagnetic field and the theory of conformal and biholomorphic invariants. (58 #1270)

Lewis, John L. Capacity functions in convex rings. (57 #16638)

Meyer, Paul-André See **Dellacherie, Claude**, (58 #7757)

Rempel, Stephan Zur Frage der Vollständigkeit der energetischen Räume für Denykere. (58 #22624)

Ritter, Gunter Famille résolvente associée à des opérateurs ne vérifiant pas le principe du maximum. (57 #9997)

Roth, Jean-Pierre Semi-groupes invariants sur un espace homogène. (57 #16642)

Zó, Felipe J. (with Borghi, Osvaldo) On Choquet's theorem on capacities. (Spanish) (58 #28566)

31C20 Discrete potential theory and numerical methods

31C25 Dirichlet spaces

Ancona, A. Continuité des contractions dans les espaces de Dirichlet. (58 #28567)

Chung, Lung Ock Manifolds carrying bounded quasiharmonic but not bounded harmonic functions. (58 #17166)

Dougherty, Edward A. A global harmonic function theory in the context of Dirichlet spaces. (58 #17167)

Feyel, Denis (with de la Pradelle, Arnaud) Le rôle des espaces de Sobolev en topologie fine. (58 #28568)

(with de la Pradelle, Arnaud) Topologies fines et compactifications associées certains espaces de Dirichlet. (English summary) (58 #22625)

(with de la Pradelle, Arnaud) Construction d'un espace harmonique de Brel associé à un espace de Dirichlet de type local vérifiant une hypothèse d'hypoellipticité. (58 #17168)

(with de la Pradelle, Arnaud) Processus associés à une classe d'espaces de Banach fonctionnels. (58 #18747)

Fukushima, Masatoshi On the generation of Markov processes by symmetric form (58 #13371)

On an L^p -estimate of resolvents of Markov processes. (58 #13373)

Haraux, Alain How to differentiate the projection on a convex set in Hilbert space. Some applications to variational inequalities. (58 #1207)

Itô, Masayuki Remarque sur la somme d'un noyau de Dirichlet et du noyau newtonien. (58 #22626)

Sur les noyaux de Frostman-Kunugui et les noyaux de Dirichlet. (English summary) (57 #6476)

Kori, Tosiaki Neumann problem on a symmetric Brelot's harmonic space. (58 #11474)

Sur une classe des solutions du problème de Dirichlet extérieur dans un espace harmonique de Brelot. (58 #28569)

Kurokawa, Takahide Balayage, capacity and a duality theorem in Dirichlet space (57 #672)

Le Jan, Yves Mesures associées à une forme de Dirichlet. (58 #28570)

McKenna, P. J. Discrete Carleson measures and some interpolation problems. (58 #1163)

de la Pradelle, Arnaud See **Feyel, Denis**, (58 #17168; **Feyel, Denis**, (58 #18747); **Feyel, Denis**, (58 #22625 and **Feyel, Denis**, (58 #28568)

Rao, Murali On a result of M. Kanda. (57 #7785)

Roth, Jean-Pierre Formule de représentation et troncature des formes de Dirichlet sur R^n . (58 #28571)

Silverstein, Martin L. The sector condition implies that semipolar sets are quasi-polar. (57 #7784)

Yor, Marc Une remarque sur les formes de Dirichlet et les semi-martingales. (58 #31396)

31C99 None of the above, but in this section

Altomare, Francesco Proiettori positivi, famiglie risolventi e problema di Dirichlet (English summary) (58 #30099)

Forst, Gunnar On a theorem of M. Ito. (French summary) (58 #1208)

Itô, Masayuki Sur l'équation $N^*u = N$ pour un noyau de convolution N . (58 #11470)

Lin, I. (with Sario, Leo) Green's lines on Royden's compactification of a Riemannian space. (58 #11471)

(Loomis, L. H.) See **Valadier, Michel**, (58 #23504)

Sario, Leo See **Lin, I.**, (58 #11471)

Taylor, John C. On the Martin compactification of a bounded Lipschitz domain in a Riemannian manifold. (French summary) (58 #6302)

Valadier, Michel À propos d'un article de L. H. Loomis: "Dilations and extremal measures" (Adv. in Math. 17 (1975), 1-13). (58 #23504)

31D05 Axiomatic potential theory

Anandam, Victor Pseudo-potentiels dans un espace harmonique sans potentiel positif. (57 #673)

On non-admissible subharmonic functions. (58 #17169)

(Bauer, Heinz) See **Guillermé, Jean**, (58 #11474)

Baumann, Udo Balayage-Operatoren in der Potentialtheorie. (58 #11472)

Bliedner, Jürgen (with Hansen, Wolfhard) Cones of hyperharmonic functions. (57 #16643)

(with Hansen, Wolfhard) Simplicial cones in potential theory. II. Approximation theorems. (58 #11473)

Boboc, Nicu (with Bucur, Gheorghe) ★Conuri convexe de funcții continue pe spații compacte. (Romanian) [Convex cones of continuous functions on compact spaces] (57 #10406)

(with Nkomba-Tshola, M.-M.) Éléments complètement excessifs par rapport à une résolvente. (58 #6303)

Bucur, Gheorghe See **Boboc, Nicu**, (57 #10406)

Chacon, R. V. Potential processes. (58 #18746)

Choquet, Gustave Résultats récents sur les formes positives sur des espaces de fonctions. (57 #17230)

Cornea, Aurel (with Licea, Gabriela) ★Order and potential resolvent families of kernels. (57 #6477)

Debs, Gabriel Cônes simpliciaux en théorie du potentiel. (57 #12883)

Dellacherie, Claude Sur la construction de noyaux boréliens. (57 #17852)

Feyel, Denis (with de la Pradelle, Arnaud) Cônes en dualité. Applications aux fonctions de Green. (58 #28565)

(with de la Pradelle, Arnaud) Cône adjoint sur l'espace de Martin, en théorie de Brelot. (English summary) (58 #28572)

- (with de la Pradelle, Arnaud) Processus associés à une classe d'espaces de Banach fonctionnels. (58 #18747)
- Fuglede, Bent Finely harmonic mappings and finely holomorphic functions. 57 #9998
- Gauthier, P. M. (with Goldstein, Myron) From local to global properties of subharmonic functions on Green spaces. 57 #6478
- Goldstein, Myron See Gauthier, P. M., 57 #6478
- Guilleme, Jean Espaces harmoniques et processus de Markov. 58 #11474
- Hansen, Wolfhard See Blidtner, Jürgen, 57 #16643 and Blidtner, Jürgen, 58 #11473
- Kori, Tosiaki Sheaf cohomology theory on harmonic spaces. 57 #16644
- Neumann problem on a symmetric Brelot's harmonic space. 58 #11475
- Král, Joseph An example of a harmonic sheaf. (Czech. Loose English and Russian summaries) (57 #4083)
- Laine, Ilpo A remark on finely harmonic mappings. 58 #28573
- Licea, Gabriela See Cornea, Aurel, 57 #6477
- Loeb, Peter A. A generalization of the Riesz-Herglotz theorem on representing measures. 58 #28574
- Luks, Jaroslav The Lusin-Menchoff property of fine topologies. (57 #4106)
- Functional approach to the Brelot-Keldych theorem. 58 #28575
- Maeda, Fumi-Yuki On boundary value problems for the equation $\Delta u = qu$ with respect to an ideal boundary. (Japanese) 58 #22627
- Classification theory for nonlinear functional-harmonic spaces. 58 #1209
- Meghea, Constantin ★Compactification des espaces harmoniques. 58 #22628
- Netuka, Ivan (with Veselý, Jiří) Harmonic continuation and removable singularities in the axiomatic potential theory. 58 #1210
- Nkomba-Tshola, M.-M. See Boboc, Nicu, 58 #6303
- de la Pradelle, Arnaud See Feyel, Denis, (58 #18747); Feyel, Denis, 58 #28565 and Feyel, Denis, 58 #28572
- Rao, Murali Excessive functions as potentials of measures. (57 #10833)
- Schirmeier, Ursula Ein Banach-Stone-Satz für adaptierte Vektorverbände und Algebren. (58 #12309)
- Smyrnelis, Emmanuel P. Axiomatique des fonctions biharmoniques. II. (English summary) 57 #16645
- Stoica, L. On the construction of a kernel. 57 #3418
- Tanaka, Hidematu The Riquier's problem of an elliptic bi-harmonic space. 58 #22629
- Taylor, John C. The harmonic space associated with a "reasonable" standard process. 57 #16646
- Vesely, Jiri See Netuka, Ivan, 58 #1210

32-XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES

32-01 Elementary exposition (collegiate level)

- Andreian Cazacu, Cabiria ★Theorie der Funktionen mehrerer komplexer Veränderlicher. 57 #12884
- (Čirka, E. M.) See Wells, R. O., Jr., (58 #24309b)
- Field, M. J. Several complex variables. 58 #11476
- Huckleberry, Alan T. ★Riemann surfaces: a view toward several complex variables. 57 #12885
- (Kopiecki, Ryszard) See Šabat, B. V., (58 #28443b)
- (Lindner, Krystyna) See Šabat, B. V., (58 #28443b)
- (Mândroi, E.) See Andreian Cazacu, Cabiria, 57 #12884
- (Mitjagin, B. S.) See Wells, R. O., Jr., (58 #24309b)
- Patel, L. K. See Singh, Darshan, 57 #12886
- Robertson, S. A. Elementary geometry of complex manifolds. 57 #16647
- Ronkin, L. I. ★Элементы теории аналитических функций многих переменных. (Russian) [Elements of the theory of analytic functions of several variables] 58 #28576
- Šabat, B. V. ★Введение в комплексный анализ. (Russian) [Introduction to complex analysis] (58 #28443a)
- ★Wstęp do analizy zespolonej. (Polish) [Introduction to complex analysis] (58 #28443b)
- ★Введение в комплексный анализ. Часть II. Функции нескольких переменных. (Russian) [Introduction to complex analysis. Part II. Functions of several variables] 58 #28443d
- Singh, Darshan (with Patel, L. K.) Some results related to the modules P^n and H^n . 57 #12886
- Wells, R. O., Jr. ★Differential analysis on complex manifolds. (58 #24309a)
- ★Дифференциальное исчисление на комплексных многообразиях. (Russian) [Differential analysis on complex manifolds] (58 #24309b)

32-02 Advanced exposition (research surveys, etc.)

- Aizenberg, L. A. (with Dautov, Š. A.) ★Дифференциальные формы, ортогональные голоморфным функциям или формам, и их свойства. (Russian) [Differential forms that are orthogonal to holomorphic functions or forms, and their properties] (58 #28593)
- Bănică, Constantin (with Stănăşilă, Octavian) ★Metode algebrice ş n teoria globală a spaţiilor complexe. (Romanian) [Algebraic methods in the global theory of complex spaces] 57 #3419
- (with Stănăşilă, Octavian) ★Algebraic methods in the global theory of complex spaces. 57 #3420
- (with Stănăşilă, Octavian) ★Méthodes algébriques dans la théorie globale des espaces complexes. Vol. 1. 58 #22630a
- (with Stănăşilă, Octavian) ★Méthodes algébriques dans la théorie globale des espaces complexes. Vol. 2. 58 #22630b
- (Cartan, Henri) See Bănică, Constantin; et al., 58 #22630a
- Dautov, Š. A. See Aizenberg, L. A., (58 #28593)
- Južakov, A. P. ★Элементы теории многомерных вычетов. (Russian) [Principles of the theory of multidimensional residues] 58 #28577

- Krée, Paul R. Introduction à l'holomorphie en dimension infinie. (58 #12362)
- Nachbin, Leopoldo Some problems in the application of functional analysis to holomorphy. (58 #30215)
- Remmert, Reinhold Neuere Ergebnisse in der komplexen Analysis. 58 #17170
- Siu, Yum Tong Pseudoconvexity and the problem of Levi. 57 #16648
- Stănăşilă, Octavian See Bănică, Constantin, 57 #3419; Bănică, Constantin, 57 #3420; Bănică, Constantin, 58 #22630a and Bănică, Constantin, 58 #22630b
- Tarski, Jan Analytic functions in quantum field theory. (58 #4033)
- Conference:
- Geometric Function Theory See Open problems in geometric function theory, 58 #28579
- Geometric function theory See Open problems in geometric function theory, 58 #28579
- Katata See Open problems in geometric function theory, 58 #28579
- Open problems in geometric function theory ★Open problems in geometric function theory. 58 #28579
- Problems:
- Geometric function theory See Open problems in geometric function theory, 58 #28579
- Symposium:
- Division of Mathematics of the Taniguchi Foundation See Open problems in geometric function theory, 58 #28579

32-03 Historical

- Hervé, Michel ★Analytic and plurisubharmonic functions in finite and infinite dimensional spaces. 57 #6479

32-04 Explicit machine computation and programs (not the theory of computation or programming)

32-06 Collections of papers; proceedings of conferences

- (Bavrin, I. I.) See Mathematical analysis and the theory of functions, 58 #22491; Mathematical analysis and the theory of functions, 58 #28581; Mathematical analysis and the theory of functions, 58 #29250 and Mathematical analysis and the theory of functions, 58 #29266
- (Bekken, Otto B.) See Spaces of analytic functions, (57 #3865)
- (Egoryčev, G. P.) See Combinatorial and asymptotic analysis, (58 #27503) and Combinatorial and asymptotic analysis, (58 #27504)
- (Ławrynowicz, Julian) See Proceedings: Finnish-Polish Summer School in Complex Analysis, (57 #6376) and Proceedings: Finnish-Polish Summer School in Complex Analysis, (57 #16546)
- (Lehto, Olli) See Proceedings: Finnish-Polish Summer School in Complex Analysis, (57 #6376) and Proceedings: Finnish-Polish Summer School in Complex Analysis, (57 #16546)
- (Lukankin, G. L.) See Mathematical analysis and the theory of functions, 58 #22491
- (Øksendal, Berni K.) See Spaces of analytic functions, (57 #3865)
- (Stray, Arne) See Spaces of analytic functions, (57 #3865)
- (Tutschke, Wolfgang) See Komplexe Analysis und ihre Anwendung auf partielle Differentialgleichungen. (58 #22490)
- Geometric Methods in Differential Equations ★Geometric methods in differential equations. (Japanese) (58 #28743)
- Analytic functions See Spaces of analytic functions, (57 #3865)
- Asymptotic analysis See Combinatorial and asymptotic analysis, (58 #27503) and Combinatorial and asymptotic analysis, (58 #27504)
- Combinatorial and asymptotic analysis ★Комбинаторный и асимптотический анализ. (Russian) [Combinatorial and asymptotic analysis] (58 #27503)
- ★Комбинаторный и асимптотический анализ. Вып. 2. (Russian) [Combinatorial and asymptotic analysis. No. 2.] (58 #27504)
- Complex analysis See Proceedings: Finnish-Polish Summer School in Complex Analysis, (57 #6376); Proceedings: Finnish-Polish Summer School in Complex Analysis, (57 #16546) and Komplexe Analysis und ihre Anwendung auf partielle Differentialgleichungen. (58 #22490)
- Complex analysis and its applications ★Complex analysis and its applications. Vol. I. (57 #5539a)
- ★Complex analysis and its applications. Vol. II. (57 #5539b)
- ★Complex analysis and its applications. Vol. III. (57 #5539c)
- Geometric theory of several complex variables ★Geometric theory of several complex variables. 58 #28580
- Halle See Komplexe Analysis und ihre Anwendung auf partielle Differentialgleichungen, (58 #22490)
- Hypersurfaces See Singularities of hypersurfaces, (58 #27954)
- Komplexe Analysis und ihre Anwendung auf partielle Differentialgleichungen ★Komplexe Analysis und ihre Anwendung auf partielle Differentialgleichungen. (58 #22490)
- Kristiansand See Spaces of analytic functions, (57 #3865)
- Kyoto See Singularities of hypersurfaces, (58 #27954); Geometric theory of several complex variables, 58 #28580 and Geometric Methods in Differential Equations, (58 #28743)
- Mathematical analysis and the theory of functions ★Математический анализ и теория функций. Вып. 1 (Russian) [Mathematical analysis and the theory of functions. No. 1] 58 #28581
- ★Математический анализ и теория функций. Вып. 2. (Russian) [Mathematical analysis and the theory of functions. No. 2] 58 #29250
- ★Математический анализ и теория функций. Вып. 3. (Russian) [Mathematical analysis and the theory of functions. No. 3] 58 #29266
- ★Математический анализ и теория функций. Вып. 6. (Russian) [Mathematical analysis and the theory of functions. No. 6] 58 #22491
- Partial differential equations See Komplexe Analysis und ihre Anwendung auf partielle Differentialgleichungen, (58 #22490)
- Podlesice See Proceedings: Finnish-Polish Summer School in Complex Analysis,

(57 #6376) and *Proceedings: Finnish-Polish Summer School in Complex Analysis*, (57 #16546)

Proceedings:

Finnish-Polish Summer School in Complex Analysis ★ *Proceedings of the First Finnish-Polish Summer School in Complex Analysis. Part II.* (57 #6376)
★ *Proceedings of the First Finnish-Polish Summer School in Complex Analysis. Part I.* (57 #16546)

Seminar:

Complex Analysis and its Applications See *Complex analysis and its applications*, (57 #5539a); *Complex analysis and its applications*, (57 #5539b) and *Complex analysis and its applications*, (57 #5539c)

Functional Analysis and Function Theory See *Spaces of analytic functions*, (57 #3865)

Several complex variables See *Geometric theory of several complex variables*, (57 #28580)

Singularities of hypersurfaces ★ *Singularities of hypersurfaces*, (Japanese) (58 #27954)

Spaces of analytic functions ★ *Spaces of analytic functions*, (57 #3865)

Summer School:

Finnish-Polish, Complex Analysis See *Proceedings: Finnish-Polish Summer School in Complex Analysis*, (57 #6376) and *Proceedings: Finnish-Polish Summer School in Complex Analysis*, (57 #16546)

Symposium:

Geometric Methods in Differential Equations See *Geometric Methods in Differential Equations*, (58 #28743)

Geometric Theory of Several Complex Variables See *Geometric theory of several complex variables*, (58 #28580)

Singularities of Hypersurfaces See *Singularities of hypersurfaces*, (58 #27954)

Tagung:

Komplexe Analysis und ihre Anwendung auf Partielle Differentialgleichungen See *Komplexe Analysis und ihre Anwendung auf partielle Differentialgleichungen*, (58 #22490)

Theory of functions See *Mathematical analysis and the theory of functions*, (58 #22491); *Mathematical analysis and the theory of functions*, (58 #28581); *Mathematical analysis and the theory of functions*, (58 #29250) and *Mathematical analysis and the theory of functions*, (58 #29266)

Trieste See *Complex analysis and its applications*, (57 #5539a); *Complex analysis and its applications*, (57 #5539b) and *Complex analysis and its applications*, (57 #5539c)

32AXX Holomorphic functions of several complex variables

32A05 Power series, series of functions

Bolotov, V. A. (with Južakov, A. P.) A generalization of the inversion formulas for systems of power series to systems of implicit functions. (Russian) (57 #16649)

Cegelik, G. G. Selection of bi-strips that do not contain zeros of double Dirichlet series. (Ukrainian, Russian summary) (58 #28582)

Downarowicz, M. Analytic continuation of series of homogeneous polynomials in topological vector spaces. (58 #17199)

Gečė, F. I. The domain of convergence of a multiple Dirichlet series. (Russian) (58 #6304)

Gubanov, A. S. Holomorphic functions that are not analytically continuable across the boundary of n -circular or circular domains. (Russian) (57 #3421)

Janušauskas, Algimantas Analytic continuation of the sums of double power series and Laplace series. (Russian, Lithuanian and English summaries) (57 #3422)

Double Dirichlet series. (Russian, Lithuanian and French summaries) (58 #11477)

Južakov, A. P. See **Bolotov, V. A.**, (57 #16649)

Kuliev, Dž. P. The regular global power of several variables. (Russian, Azerbaijani summary) (58 #22631)

Orudžev, G. A. The domain of absolute convergence of series that are near to interpolation and Dirichlet series. (Russian) (57 #674)

Reich, Ludwig (with Schwaiger, Jens) Über einen Satz von Shl. Sternberg in der Theorie der analytischen Iterationen. (English summary) (57 #675)

Safoev, M. D. The domain of convergence for a multiple Newton series. (Russian, Tajiki summary) (58 #17171)

Sauljan, T. A. Overconvergence of a form of function series in the space \mathbb{C}^n . (Russian) (58 #28583)

Schopf, Gerhard Das Nullstellengebilde von Potenzreihen in z und \bar{z} . (58 #6305)

Schwaiger, Jens See **Reich, Ludwig**, (57 #675)

Soltan, E. E. The expansion of holomorphic functions in multidimensional Bürmann-Lagrange series. (Russian) (57 #676)

Trithart, Jörg Beiträge zur Theorie der Iteration von biholomorphen Kontraktionen. (58 #28265)

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

Aronov, A. M. (with Zinov'ev, B. S.) A problem of biholomorphic mappings. (Russian) (57 #16650)

Carmichael, Richard D. Distributional boundary values and the tempered ultra-distributions. (58 #11478)

Katz, Getulio Reinhardt domains in \mathbb{C}^n . (58 #6306)

Kodama, Akio On generalized Siegel domains. (58 #1286)

Sunada, Toshikazu Holomorphic equivalence problem for bounded Reinhardt domains. (58 #1211)

Trušin, V. B. See **Zav'jalov, B. I.**, (58 #6307)

Vladimirov, V. S. Linear passive systems. (Russian, English summary) (58 #1212)
Analytic functions of several complex variables, and quantum field theory. (Russian) (58 #1213)

Holomorphic functions of several complex variables with non-negative imaginary part and some applications. (58 #6311)

Holomorphic functions with positive imaginary part in the future tube. IV. (Russian) (58 #1214)

Holomorphic functions with a nonnegative imaginary part in tubular domains over cones. (Russian) (58 #1215)

Zaharjuta, V. P. Generalized Mitjagin invariants and a continuum of mutually non-isomorphic spaces of analytic functions. (Russian) (57 #7132)

Zav'jalov, B. I. (with Trušin, V. B.) The extended n -point tube. (Russian, English summary) (58 #6307)

Zinov'ev, B. S. See **Aronov, A. M.**, (57 #16650)

32A10 Holomorphic functions

Agranović, P. Z. (with Ronkin, L. I.) Conditions for the pluriharmonicity of the indicator of a holomorphic function of several variables. (Russian, English summary) (58 #11479)

Aizenberg, L. A. A remark on Morera's theorem. (Russian) (57 #12887)

Barroso, Jorge Alberto A characterization of relatively compact sets of holomorphic mappings. (58 #12358)

Bavrina, K. P. A condition for regular functions to belong to the class $Y_D(\alpha)$. (Russian) (58 #28585)

A condition for regular functions to belong to the class $V_D(\alpha)$. (Russian) (58 #28586)

Bodnarič, P. I. The relation between the classical moment problem for a function of several variables and branching continued fractions. (Russian) (58 #28587)

Bondar, A. V. Monogeneity sets and holomorphy criteria for functions of several complex variables. (Russian) (58 #6308)

A multidimensional variant of a theorem of Bohr. (Russian) (57 #16709)

A generalization of the multidimensional Morera theorem. (Russian) (58 #17131)

Charpentier, Philippe Sur les zéros des fonctions analytiques dans le bidisque. (English summary) (57 #6480)

Golovataja, V. S. (with Okun', S. D.) Necessary conditions of a special form for the isomorphism of spaces of functions that are analytic in bicircular domains. (Russian) (58 #7048)

Gončar, A. A. A local condition for the single-valuedness of analytic functions of several variables. (Russian) (58 #28632)

Gupta, Manjul See **Kamthan, P. K.**, (57 #13457)

Harris, Lawrence A. Bounds on the derivatives of holomorphic functions of vector variables. (57 #17283)

Isaev, G. A. Numerical range and spectrum of joint holomorphic operator-valued functions of several complex variables. (Russian) (57 #7223)

Južakov, A. P. A sufficient condition for the separation of analytic singularities in \mathbb{C}^n and a basis of a certain space of holomorphic functions. (Russian) (58 #1216)

Kamthan, P. K. (with Gupta, Manjul) Analytic functions in bicylinders. (57 #13457)

Kita, Michitake A problem on Riemann surfaces from the point of view of several complex variables. (Japanese) (58 #28578)

A problem on Riemann surfaces from the point of view of several complex variables. (Japanese) (58 #28578)

Kuliev, Dž. P. The similarity principle in a class of quasismooth functions of several variables. (Russian, Azerbaijani and English summaries) (58 #17173)

Lacabizze, T. I. The class of the holomorphic functions $R_D(\alpha)$ and extremal problem for this class of functions. (Russian, Georgian and English summaries) (58 #1217)

Laville, Guy Dérivée normale du module d'une fonction holomorphe. I. (57 #3423a)

Dérivée normale du module d'une fonction holomorphe. II. (57 #3423b)

Lukankin, G. L. Problems of linear conjugacy of functions of two complex variables. (Russian) (58 #28588)

Masser, D. W. On small values of polynomials. (57 #16651)

Melikov, H. H. Estimates in the theory of analytic functions of two complex variables. (Russian) (58 #28589)

Okun', S. D. See **Golovataja, V. S.**, (58 #7048)

Pflug, Peter Bestimmungsflächen für das Randwachstum holomorpher Funktionen auf analytischen Polyedern. (58 #1218)

Pham-Gia, Thu On a theorem of Lelong. (58 #1219)

Ronkin, L. I. See **Agranović, P. Z.**, (58 #11479)

Tutschke, Wolfgang Die inhomogene Cauchy-Riemannsche Differentialgleichung in unendlich vielen komplexen Variablen. (58 #29408)

Yabuta, Kōzō Holomorphic functions with bounded real parts. (58 #17174)

Zarantonello, Sergio Eduardo On the zeros of bounded holomorphic functions. (Spanish) (58 #22632)

32A15 Entire functions

Agranović, P. Z. (with Ronkin, L. I.) Conditions for the pluriharmonicity of the indicator of a holomorphic function of several variables. (Russian) (57 #9999)

Aron, Richard M. Weakly uniformly continuous and weakly sequentially continuous entire functions. (58 #30210)

Bezdužnyi, G. M. Isomorphism of spaces of entire functions of n complex variables of given conjugate order or conjugate type. (Russian) (58 #12310)

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32M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57F15.]

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32M99 None of the above, but in this section

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32Nxx Automorphic functions [See also 10Dxx, 20H10, 22E40, 30A58.]

- (**Gottschling, E.**) See **Siegel, Carl Ludwig**, (57 #16317b)
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32N05 General theory of automorphic functions of several complex variables

- Andrianov, A. N.** Relations between the Hecke rings of the groups Sp_n and SL_n . (Russian) (58 #16524)
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- Apanasov, B. N.** A certain kind of automorphic forms in a Euclidean space. (Russian) (58 #28706)
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 (Resnikoff, H. L.) See **Dorfmeister, J.**, (58 #6378)
Scutaru, H. Coherent states and induced representations. (58 #22406)

32N15 Automorphic functions in symmetric domains

- Namikawa, Yukihiko** A new compactification of the Siegel space and degeneration of polarized Abelian varieties. (Japanese) (58 #16697)
Wells, R. O., Jr. Automorphic cohomology on homogeneous complex manifolds. (57 #6529)

32N99 None of the above, but in this section

33-01 Elementary exposition (collegiate level)

- Carlson, Billie Chandler** ★Special functions of applied mathematics. (58 #28707)
Higgins, Theodore Parker A child's garden of special functions. (57 #16720)
Markušević, A. I. ★Curvas maravillosas. (Spanish) [Remarkable curves] (57 #6530)
 (Vega, Carlos) See **Markušević, A. I.**, (57 #6530)

33-02 Advanced exposition (research surveys, etc.)

- Askey, Richard** ★Orthogonal polynomials and special functions. (58 #1288)
Higgins, John Rowland ★Completeness and basis properties of sets of special functions. (58 #17240)
Hochstadt, Harry ★The functions of mathematical physics. (58 #17241)
 (Kotliar, Vladimir) See **Nikiforov, A. F.**; et al., (57 #731)
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 (with **Uvarov, V. B.**) ★Éléments de la théorie des fonctions spéciales. (57 #731)
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33-03 Historical

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Slavutin, E. I. Euler's works on elliptic integrals. (Russian) (58 #21187)

33-04 Explicit machine computation and programs (not the theory of computation or programming)

- Luke, Yudel L.** ★Algorithms for the computation of mathematical functions. (58 #13624)

33-06 Collections of papers; proceedings of conferences

33A10 Exponential and trigonometric functions

- Abdelfattah, M. A.** See **Simary, M. A.**, (57 #3463)
Askey, Richard Inequalities via fractional integration. (58 #1289)
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Simary, M. A. (with **Abdelfattah, M. A.**) Integral representation of the exponential function. (Arabic summary) (57 #3463)
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Talât-Erben, M. Evaluation of the integral $I(n, a, b) = \int_0^{2\pi} r^n e^{-ar} \text{Ei}(br) dr$. (Turkish summary) (58 #1058)

33A15 Gamma and beta functions

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Kairies, H.-H. Convexity in the theory of the gamma function. (58 #6379)
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- Bljumin, S. L.** (with **Šmyrin, A. M.**) The generation of the Walsh functions and their generalizations. (Russian) (58 #33479)
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33A25 Elliptic functions and integrals

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33A30 Hypergeometric functions of one and several variables, generalizations

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- Boyer, Charles P. (with Miller, Willard, Jr.) A relationship between Lie theory and continued fraction expansions for special functions. **58** #6401
- De Meyer, H. E. (with Vanden Bergh, G.) A general set of relations involving 3- y symbols. (58 #11249)
- Frota-Mattos, Luis A. The complex-analytic extension of the Fourier series on Lie groups. (57 #17126)
- Gazeau, J. P. Une identité du binôme et les représentations linéaires finies de $M_p(K)$ et $GL(p, K)$. (58 #915)
- Gelbart, Stephen S. Harmonics on Stiefel manifolds and generalized Hankel transforms. (58 #1021)
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- Borivka, Otakar ★Linear differential transformations of the second order. 57 #3484
- Cesari, Lamberto Functional analysis, nonlinear differential equations, and the alternative method. (58 #7249)
- Coppel, W. A. Ordinary differential equations. 58 #1316
- Djad'kov, Sergej Spaces and transforms in systems theory. (Russian) (58 #26195)
- de Guzmán, Miguel ★Ecuaciones diferenciales ordinarias. (Spanish) [Ordinary differential equations] 57 #12948
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- Hille, Einar Non-linear differential equations; questions and some answers. 57 #16751
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- Cartwright, Mary L. Some points in the history of the theory of nonlinear oscillations. (58 #27062)
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- History of national mathematics in four volumes ★История отечественной математики в четырех томах. Том 4. Книжки 1 и 2: 1917-1967. (Russian) [History of national mathematics in four volumes. Vol. 4. Books 1 and 2: 1917-1967] (58 #26682)
- Oeuvres:
 Painlevé, Paul See Painlevé, Paul, (58 #27154a); Painlevé, Paul, (58 #27154b) and Painlevé, Paul, (58 #27154c)

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- Elsaesser, U.** (with Niethammer, Wilhelm) Kriterien für die Liapunovstabilität und ihre numerische Anwendung. (English summary) (58 #8316)
- Ezeilo, J. O. C.** An instability theorem for a certain fourth order differential equation. **58 #11711**
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- Gatto, M.** (with Rinaldi, S.) Stability analysis of predator-prey models via the Liapunov method. (58 #20606)
- Gauthier, L.** Un exemple de système non linéaire en liaison avec le théorème de Liapunov. (Russian summary) **58 #28909**
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- Grippio, Luigi** (with Lampariello, Francesco) Practical stability of discrete-time systems. (58 #20717)
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- Hahn, Hubert** Existence criteria for bifurcations as stability criteria for critical nonlinear control systems. **58 #22852**
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- Izobov, N. A.** The absence of real multipliers for an n -dimensional periodic system of order $4m+2$. (Russian) (57 #10089)
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- Kaščenko, S. A.** An algorithm for investigating the stability of the solutions of n th order linear differential equations with near constant almost periodic coefficients. (Russian) **58 #22853**
- Klincsik, Mihály** Study of stability on a finite interval of time using differential inequalities. (Hungarian. Russian summary) **58 #1423**
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- LaSalle, Joseph P.** Invariance principles and stability theory for nonautonomous systems. **58 #1425**
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- Likova, O. B.** (with Boičuk, O. A.) Construction of a Ljapunov function for linear systems of ordinary differential equations. (Russian) **58 #28911**
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- Pecelli, G.** (with Thomas, E. S.) An example of elliptic stability with large parameters: Lamé's equation and the Arnold-Moser-Rüssmann criterion. (58 #19486)
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- čerbakov, B. A.** (with **Fal'ko, N. S.**) The minimality of sets and the Poisson stability of motions in homomorphic dynamical systems. (Russian) (58 #11687)
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- zemljakov, A. S.** Methods for constructing Ljapunov vector-functions for nonlinear systems, and derivation of some estimates. (Russian) (58 #6551)
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- (Babary, J. P.)** See **Bernussou, Jacques**, (58 #1412)
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- Grudo, E. I.** (with **Pesina, T. V.**) The structure of the solutions of a differential system in the neighborhood of an integral torus in a critical case. (Russian. English summary) (58 #22858)
- Os'kina, N. V.** Stabilization of integral manifolds in control systems. (Russian) (57 #16864)
- Pesina, T. V.** See **Grudo, E. I.**, (58 #22858)
- Robinson, R. Clark** Structural stability of C^1 flows. (58 #31251)
- Sell, George R.** The structure of a flow in the vicinity of an almost periodic motion. (58 #11704)
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- Vrdoljak, Božo A study of some differential equations with factored or rational right-hand side. (Serbo-Croatian. French summary) **57** #16866
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34Exx Asymptotic theory

- Filatov, A. N. ★Асимптотические методы в теории дифференциальных и интегро-дифференциальных уравнений. (Russian) [Asymptotic methods in the theory of differential and integrodifferential equations] **57** #6677
- Markus, I. I. ★Розвиток асимптотичних методів у теорії диференціальних рівнянь. (Ukrainian) [The development of asymptotic methods in the theory of differential equations] **58** #28919
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- (Schmidt, Günther) See Untersuchungen zur asymptotischen Theorie nichtlinearer Differentialgleichungen, (57 #16757)
- Wasow, Wolfgang ★Asymptotic expansions for ordinary differential equations. **57** #812
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- Berg, Lothar Two matching rules. (58 #30419)
- Berkey, Dennis D. See Freedman, Marvin I., (58 #33349)
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- Ėskin, L. D. Asymptotic behavior of the solutions of the system $y' = \mu A(x)y$. (Russian) **58** #11722
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- Fešchenko, S. F. (with Škil', M. I.) Asymptotic methods in the theory of linear differential equations with slowly varying coefficients. (Russian) **58** #28923
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- Gilbert, Richard C. The deficiency index of a third order operator. (57 #3526)
- Grebenikov, E. A. (with Rjabov, Ju. A.) Asymptotic theory and celestial mechanics. (Russian) (58 #32168)
- Grigor'eva, N. S. Uniform asymptotic expansions of the solutions of the Mathieu and modified Mathieu equations. (Russian. English summary) (58 #22756)
- Habets, P. On the method of strained coordinates. (58 #24979)
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- Harris, W. A., Jr. On asymptotic integration. **58** #28924
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40-02 Advanced exposition (research surveys, etc.)

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40-04 Explicit machine computation and programs (not the theory of computation or programming)

40-06 Collections of papers; proceedings of conferences

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

- Adamović, Dušan D. Quelques compléments aux résultats du travail: "Sur la convergence des rapports de la somme partielle au terme général et du reste au terme général d'une série réelle au complexe" (Publ. Inst. Math. (Beograd) (N.S.) 15(29) (1973), 5-20). 57 #3685
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40A10 Convergence and divergence of integrals

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- Oruđzev, G. A. The domain of convergence of an integral of Laplace-Stieltjes type. (Russian. Azerbaijani and English summaries) 57 #6934

40A15 Convergence and divergence of continued fractions [See also 30A22.]

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42A04 Trigonometric polynomials, inequalities, extremal problems

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- Tableson, M. H. The failure of even conjugate characterizations of H^1 on local fields. **58** #6941
- Wells, Benjamin B., Jr. Rearrangements of functions on the ring of integers of a p -series field. **58** #6942

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- Allouche, Jean-Paul Vibrations non bornées des tores plats. (English summary) (**58** #22003)
- Benke, George Lacunarity and Lipschitz properties in totally disconnected abelian groups. (**58** #12165)
- Cowling, Michael G. The Kunze-Stein phenomenon. (Italian summary) (**58** #1008)
- Hasumi, Morisuke Theory of invariant subspaces. (Japanese) (**58** #30274)
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- Rider, Daniel Random Fourier series. (**58** #6886)
- Schempp, Walter Approximation of G -homogeneous Banach spaces. **58** #23357
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- Tableson, M. H. ★Fourier analysis on local fields. **58** #6943
- Uno, Yoshikazu Lipschitz functions and convolution on bounded Vilenkin groups. **58** #6944
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- Weiss, Guido Harmonic analysis on compact groups. **57** #13383

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- Charbonnel, J. Y. La formule de Plancherel pour un groupe de Lie résoluble connexe. (**58** #6067)
- Hua, Luo Geng ★Cong danwei yuan tanqi. (Chinese) [Starting from the unit circle] (**58** #28244)

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- (with Weiss, Guido) ★Transference methods in analysis. (58 #2019)
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- Miluseva, S. D.** *See* **Bainov, Drumi D.**, (**58** #29926)
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- Raghavendra, V.** A converse theorem for the exponential stability of a class of nonlinear integrodifferential equations. (**57** #3791)
- Seitkazieva, Kuluſai** Asymptotic estimates in the theory of the branching of periodic solutions of singularly perturbed integro-differential equations with several small parameters multiplying the highest derivative. (Russian) (**58** #23439)
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- Vasil'eva, A. B.** (with Hasanov, A. A.) The stable initial manifold for an integro-differential equation in the critical case. (Russian) **58** #7007
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- Voronoi, O. M.** The asymptotic solution of a system of linear integro-differential equations that contain a small parameter. (Russian) (**58** #2099)
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- Collatz, Lothar** Bifurcation diagrams. (**58** #24336)
- DeFranco, R. J.** Some stability criteria for multiple Volterra integral equations with an application to gas chromatography. **58** #7008
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- Atdaev, S.** (with Aširov, S. A.) A study of the solutions of nonlinear multidimensional Volterra operator equations. (Russian) (**58** #7245)
- Barbu, Viorel** On a nonlinear Volterra integral equation on a Hilbert space. **57** #1052
- Cekanovskii, Ė. R.** *See* **Malamud, M. M.**, (**57** #13582) and **Malamud, M. M.**, (**58** #23779)
- Crandall, Michael G.** (with Londen, Stig-Olof; Nohel, J. A.) An abstract nonlinear Volterra integrodifferential equation. **58** #17762
- Deundjak, V. M.** The tensor product of algebras of discretely continual convolutions. (Russian) (**58** #18609)
- Fan Van Čyong** A smooth choice theorem and its application to multivalued integral equations. (Russian) **58** #17763
- Gavrin, V. P.** A definition of F -normal solvability. (Russian) **58** #29979
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- Helton, Jon C.** Solution of two Volterra integral equations. **57** #17173
- Heunemann, Dieter** Über die normale Auflösbarkeit singulärer Integraloperatoren mit unsteigtem Symbol. **58** #12259
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- Londen, Stig-Olof** On an integral equation in a Hilbert space. (**58** #23401)
- On an integrodifferential Volterra equation with a maximal monotone mapping. (**58** #17711)
- (with Staffans, Olof J.) A note on Volterra equations in a Hilbert space. **57** #7083
- An existence result on a Volterra equation in a Banach space. **57** #13432
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- (with Cekanovskii, Ė. R.) Tests for the linear equivalence of Volterra operators in the scale $L_p[0, 1]$ ($1 < p < \infty$). (Russian) (**57** #13582)
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- Nagnibida, M. Ī.** (with Olinsky, N. P.) Some properties of Volterra operators in analytic spaces. (Russian) (**58** #17941)
- Nayar, B. M.** Induced potential problem in three dimensions. (**58** #11467)
- Nohel, J. A.** *See* **Crandall, Michael G.**; et al., **58** #17762
- Oğuztöreli, Mehmet Namık** On a class of integro-differential equations. (Italian summary) (**58** #12255)
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- Salsa, Sandro** Equazioni integrali di Wiener-Hopf in spazi di Besov e applicazioni. (English summary) **57** #10400
- Schiaffino, Andrea** A compactness method for a class of semi-linear Volterra integro-differential equations in Banach spaces. (Italian summary) **58** #12260
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- Stecher, M.** *See* **Kiffe, T. R.**, (**58** #2073)
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- On Volterra integral equations in Banach spaces. (**58** #23402)
- Takano, Katsuo** An integral equation related to the Cameron-Storvick operator-valued function space integral. (**58** #28400)
- Vaughn, R. L.** Existence and comparison results for nonlinear Volterra integral equations in a Banach space. (**58** #23423)
- Zaborova, T. N.** Invertibility of an integral operator of the first kind with an almost difference kernel. (Russian) **58** #29982
- Noether's theorems for a class of integral equations of the first kind with almost difference kernels. (Russian) (**58** #29935)

46-XX FUNCTIONAL ANALYSIS [For manifolds modelled on topological linear spaces, see 57A20, 58Bxx.]

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- Akilov, G. P.** *See* **Kantorovič, L. V.**, **58** #23465
- Artémiadis, Nicolas K.** ★Real analysis. (**57** #6311)
- (Basch, Michael) *See* **Rektorys, Karel.** (**58** #7268b)
- (Baumgartel, H.) *See* **Abiezer, N. I.**; et al., (**58** #30343)
- Brown, Arlen** (with Percy, Carl M.) ★Introduction to operator theory. **1** **58** #23463

Adali, Sarp Existence and asymptotic stability of solutions of an abstract

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- Craioveanu, M. (with Rațiu, T. S.) ★Elemente de analiză locală. I. (Romanian) [Elements of local analysis. I.] (58 #2844a)
- (with Rațiu, T. S.) ★Elemente de analiză locală. II. (Romanian) [Elements of local analysis. II.] (58 #2844b)
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- Fuchssteiner, Benno (with Laugwitz, Detlef) ★Funktionalanalysis. 58 #29983
- Gheorghiu, N. ★Introducere în analiza funcțională. (Romanian) [Introduction to functional analysis.] 57 #1053
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- Hervé, Michel ★Cours sur les distributions. 58 #23464
- Heuser, Harro ★Funktionalanalysis. 58 #2111
- Hille, Einar ★Methods in classical and functional analysis. 57 #3802
- Hirzebruch, F. (with Scharlau, Winfried) Einführung in die Funktionalanalysis. 57 #3803
- Höning, Chaim Samuel ★Análise funcional e aplicações. Vols. I, II. (Portuguese) [Functional analysis and applications. Vols. I, II] 57 #1054
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- (Kuczmarski, Marcin E.) See Szmydt, Zofia, (58 #22952b)
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- Larsen, Ronald ★Functional analysis: an introduction. 57 #1055
- ★Banach algebras. 58 #7010
- Laugwitz, Detlef See Fuchssteiner, Benno, 58 #29983
- Lesky, Peter See Kühner, Ernst, (57 #6946)
- Mukherjee, Arunava (with Pothoven, K.) ★Real and functional analysis. (58 #11294)
- Pearcy, Carl M. See Brown, Arlen, 58 #23463
- Pflaumann, Erika (with Unger, Heinz) ★Funktionalanalysis. I. 57 #3804a
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- Pothoven, K. See Mukherjee, Arunava, (58 #11294)
- Rațiu, T. S. See Craioveanu, M., (58 #2844a) and Craioveanu, M., (58 #2844b)
- Rektoryš, Karel ★Variační metody v inženýrských problémech a v problémech matematické fyziky. (Czech) [Variational methods in engineering problems and in problems of mathematical physics] (58 #7268a)
- ★Variational methods in mathematics, science and engineering. (58 #7268b)
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- Scharlau, Winfried See Hirzebruch, F., 57 #3803
- Schechter, Martin ★Principles of functional analysis. 57 #7085
- Schwartz, Laurent ★Analyse. 57 #7087
- Szmydt, Zofia ★Transformacja Fouriera i równania różniczkowe liniowe. (Polish) [Fourier transforms and linear differential equations] (58 #22952a)
- ★Fourier transformation and linear differential equations. (58 #22952b)
- Takeuchi, Yu Space with the operator metric. (Spanish) (58 #30344)
- Tal'dykin, A. T. ★Векторные функции и уравнения (с приложениями к теории управления). (Russian) [Vector functions and equations (with applications to control theory)] (58 #20641)
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- Wloka, Joseph ★Funktionalanalysis und Anwendungen. 57 #7088
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- Séminaire:
Géométrie des Espaces de Banach ★Séminaire sur la Géométrie des Espaces de Banach (1977-1978). 58 #23467
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- Balakrishnan, A. V. ★Applied functional analysis. (57 #10445)
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- (Bogoljubov, O. M.) See History of national mathematics in four volumes, (58 #26682)
- Borgwardt, Heidemarie Die historische Entwicklung der Funktionalanalysis zu einer selbständigen mathematischen Disziplin. (57 #15906)
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- (Deheuvels, Paul) See Oeuvres: Lévy Paul, (58 #27164a)
- Dorofeeva, A. V. (with Rybnikov, K. A.) De la formation des notions fondamentales de l'analyse fonctionnelle au XIX^e siècle. (58 #21255)
- The development of the theory of integral equations up to the works of Hilbert. (Russian) (58 #21202)
- (Dugué, Daniel) See Oeuvres: Lévy Paul, (58 #27164a)
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- (Juškevič, A. P.) See History of national mathematics in four volumes, (58 #26682)
- Katetov, Miroslav On certain aspects of the development of functional analysis. (Russian) (58 #27072)
- Lévy, P. Functions of lines and functional differential equations. (Russian) (58 #27073)
- See also Oeuvres: Lévy Paul, (58 #27164a)
- Medvedev, F. A. The founders of functional analysis on its early history. (Russian) (58 #27079)
- The first monograph on functional analysis. (Russian) (58 #27080)
- Monna, A. F. ★Functional analysis in historical perspective. 58 #2112
- (Pincherle, S.) See Medvedev, F. A., (58 #27080)
- Rybnikov, K. A. See Dorofeeva, A. V., (58 #21255)
- (Štokalo, Ľ. Z.) See History of national mathematics in four volumes, (58 #26682)
- History of mathematics See History of national mathematics in four volumes, (58 #26682)
- History of national mathematics in four volumes ★История отечественной математики в четырех томах. Том 4. Книжки 1 и 2: 1917-1967. (Russian) [History of national mathematics in four volumes. Vol. 4. Books 1 and 2: 1917-1967] (58 #26682)
- Oeuvres:
Lévy Paul ★Oeuvres de Paul Lévy. Vol. I. (58 #27164a)
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- Coleman, Bernard D. (with Mizel, Victor J.) Methods of constructing non-linear functionals which separate sets in Hilbert spaces. (Italian summary) (58 #17844)
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- (Nikol'skii, V. N.) See Application of functional analysis in approximation theory, (58 #23246); Application of functional analysis in approximation theory, 58 #29986
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★ **Функциональный анализ и некоторые вопросы качественной теории дифференциальных уравнений.** (Russian) [Functional analysis and questions of the qualitative theory of differential equations] (57 #6555)

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- Berger, C. A. (with Coburn, L. A.; Lebow, A.) Representation and index theory for C^{\ast} -algebras generated by commuting isometries. (57 #7251)
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- Dmitriev, V. I. A propos compact sets in interpolation spaces of constants. (Russian) (58 #23646)
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- Lions, J.-L. Interpolation linéaire et non linéaire et régularité. (58 #2352)
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47-XX OPERATOR THEORY

47-01 Elementary exposition (collegiate level)

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47-02 Advanced exposition (research surveys, etc.)

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- Stern, Manfred Simplicity in incidence geometries of grade n . 58 #12716

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- Akusskii, I. Ja. (with Kazangapov, A. N.) Geometry in the residue space. (Russian) 57 #17500
- Aleksandrova, G. A. An axiomatic construction of the geometry of the quasihyperbolic space ${}^{1/2}S$. (Russian) 57 #3996
- André, Johannes Über verschiedene Klassen von Unterräumen in Räumen mit nichtkommutativer Verbindung. 58 #18133
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- Beukenhout, Francis (with Metz, Rudolf; Totten, Jim) A classification of linear spaces based on quadrangles. I. 57 #13689
- Bruno, S. (with Ferrero, M.) On the categories of the affine and baricentric spaces. (57 #10570)
- Buckenhout, Francis Extensions of polar spaces and the doubly transitive symplectic groups. (58 #351)
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- Schwerdtfeger, Hans Invariants of a class of transformation groups. II. 58 #12720
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- Wefelscheid, Heinrich Zur Charakterisierung einer Klasse von Hyperbelstrukturen. (English summary) 57 #10590

52-XX CONVEX SETS AND GEOMETRIC INEQUALITIES

52-01 Elementary exposition (collegiate level)

- Ahrens, Ingrid See Meschkowski, Herbert, (58 #2667)
- Belousov, E. G. ★Введение в выпуклый анализ и целочисленное программирование. (Russian) [Introduction to convex analysis and integer programming] (57 #15423)
- Garrido, Julio On the classification of polyhedra. (Spanish. French summary) (57 #17509)
- Meschkowski, Herbert (with Ahrens, Ingrid) ★Theorie der Punktmengen. (58 #2667)
- Nanclares, Jorge H. See Toranzos, Fausto A., 58 #24001
- Toranzos, Fausto A. (with Nanclares, Jorge H.) ★Convexidad. (Spanish) [Convexity] 58 #24001
- Weaver, Charles S. Geoboard triangles with one interior point. 57 #10591

52-02 Advanced exposition (research surveys, etc.)

- Dubois, Jacques Sur la convexité et ses applications. 58 #24002
- Jaglom, I. M. Plane Minkowski geometry—problems and results. (Russian) 58 #3073
- Martí, Jürg T. ★Konvexe Analysis. (58 #23497)

52-03 Historical

- (Deheuvels, Paul) See Oeuvres: Lévy Paul, (58 #27164b)
- (Dugué, Daniel) See Oeuvres: Lévy Paul, (58 #27164b)
- Fenchel, W. Convexity through the ages. (Danish) 58 #30740
- (Ibéro, Michel) See Oeuvres: Lévy Paul, (58 #27164b)
- (Lévy, P.) See Oeuvres: Lévy Paul, (58 #27164b)
- Oeuvres:
Lévy Paul ★Oeuvres de Paul Lévy. Vol. II. (58 #27164b)

52-04 Explicit machine computation and programs (not the theory of computation or programming)

- Akl, Selim G. (with Toussaint, Godfried T.) A fast convex hull algorithm. (58 #19323)
- Berman, Joel (with Hanes, Kit) Optimizing the arrangement of points on the unit sphere. 57 #17502
- Boyer, Marcel (with Paquette, Louis) An algorithm to decide if the intersection of convex polyhedral cones has a non empty interior. 57 #1270
- Dolmatov, S. L. See Pankov, P. S., 58 #18137
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- Pankov, P. S. (with Dolmatov, S. L.) Use of a computer to find the number of regular pentagons that can simultaneously touch a given one. (Russian) 58 #18137
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- Toussaint, Godfried T. See Akl, Selim G., (58 #19323)
- Wendler, Klaus Die rechenstechnische Realisierung von Verfahren zur Lösung von linearen Optimierungsproblemen mit Parametern als Koeffizienten der Zielfunktion oder als rechte Seite der Restriktionen. (Russian, English and French summaries) (58 #32924)

52-06 Collections of papers; proceedings of conferences

52A05 Convex sets without dimension restrictions

- Armstrong, Thomas E. Polyhedrality of infinite dimensional cube. (58 #12281)
- Bahtin, I. A. (with Kosolapova, N. N.; Orehova, Z. P.) On Judin's problem. (Russian) (58 #7020)
- Bair, Jacques (with Fourneau, René) ★Étude géométrique des espaces vectoriels. (58 #12282)
- (with Jongmans, F.) Sur les graves questions qui naissent quand la décomposition des ensembles atteint un stade avancé. (English summary) 57 #10592
- (with Fourneau, René; Jongmans, F.) Vers la domestication de l'extrémisme. 57 #3998
- Décompositions d'un convexe à l'aide de certains de ses dilatés. (English summary) 57 #3999
- (with Gwinner, Joachim) On the strong separation of families of convex sets. (French summary) (58 #12283)
- Séparation forte k -brillante de deux convexes. 58 #2602
- (with Fourneau, René) A characterization of unbounded Choquet simplices. (57 #10598)
- Critères de séparation pour polyèdres convexes. (English summary) 58 #12721
- Description des sommets de quelques ensembles convexes. (Italian and English summaries) 58 #30741
- Bastou, V. J. (with Bostock, F. A.) Join operations in vector spaces. (57 #10615)
- Borwein, J. M. On strongly exposing functionals. (58 #12301)
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- Bridges, Douglas S. On the connectivity of convex sets. 57 #17504
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- Elster, Karl-Heinz (with Nehse, Reinhard) Separation of two convex sets by operators. (57 #17201)
- Figiel, Tadeusz A short proof of Dvoretzky's theorem on almost spherical sections of convex bodies. (58 #7030)
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- Jongmans, F. See Bair, Jacques; et al., 57 #3998 and Bair, Jacques, 57 #10592
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- Moreau, Jean-Jacques Distance à un convexe mobile d'un espace hilbertien. (58 #30054)
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- Breen, Marilyn Decompositions for nonclosed planar m -convex sets. 57 #10597
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- Larman, D. G. Corrigendum: "On a conjecture of Klee and Martin for convex bodies" (Proc. London Math. Soc. (3) 23 (1971), 668-682). 58 #18144
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- The dimension of almost spherical sections of convex bodies. (57 #13454a)
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- (with Rhoades, B. E.) Fixed point theorems for mappings with a contractive iterate. **57** #1467
- See also **Ghoshal, Sudhanshu Kumar**, **58** #7587
- Reich, Simeon** Approximate selections, best approximations, fixed points, and invariant sets. (**58** #24180)
- Rhoades, B. E.** Remarks: "Common fixed points theorems of two mappings" (Comment. Math. Univ. St. Paul **24** (1975/76), no. 2, 97-106) by K. J. Chung. **58** #24230
- A common fixed point theorem. **57** #7568
- A comparison of various definitions of contractive mappings. (Hungarian) **58** #24231
- Some applications of contractive type mappings. **57** #7569
- Two general fixed point theorems. **57** #7567
- A fixed point theorem for locally convex linear topological spaces. (**58** #7238)
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- Some mappings on a metric space. **58** #7591
- See also **Ray, Barada K.**, **57** #1467
- Roux, Delfina** (with Zanco, Clemente) Quasi-periodic points under self-mappings of a metric space. (Italian summary) **58** #2778
- Rus, Ioan A.** On the fixed points of mappings defined on a Cartesian product. I. Algebraic structures. (Romanian. French summary) **58** #31033a
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- Schirmer, Helga** Fixed points can characterise curves. **58** #12986
- Seelbach, Marijean** Some fixed point theorems for a pair of mappings. **58** #18397
- Sehgal, V. M.** See **Husain, Syed A.**, **57** #10695; **Husain, Syed A.**, **58** #18392; **Husain, Syed A.**, **58** #31025 and **Husain, Syed A.**, **58** #31026
- Seikkala, Seppo** See **Heikkilä, Seppo**, **58** #31024
- Sen Gupta, Malaya** On common fixed point of operators. **58** #2779
- Some results on fixed points in locally convex spaces. II. (**57** #10519)
- Singh, Awadhesh Kumar** See **Lal, Shiva Narain**, **58** #31029
- Singh, Kanahaya Lal** Two theorems characterizing increasing k -set contraction mappings. (Italian summary) (**58** #2486)
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- Singh, S. L.** Generalized diminishing orbital diametral sum. **57** #17614
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- See also **Tewari, B. M. L.**, **57** #13906
- Singh, Sankatha P.** See **Meade, B. A.**, **57** #10697
- Skalecki, A. G.** Sets without the F -property. (Russian) **57** #13904
- Skof, Fulvia** Teoremi di punto fisso per applicazioni negli spazi metrici. **58** #2780
- Smart, D. R.** ★Fixed point theorems. **57** #7570
- Solomon, J. L.** A note on attractors for compact sets. (**58** #30584)
- (with Janos, Ludvik) Even continuity and the Banach contraction principle. **58** #18398
- See also **Janos, Ludvik**, **58** #2772
- Stan, Costică** See **Popa, Valeriu**; et al., **57** #13903
- Subrahmanyam, P. V.** A new approach to fixed points and coincidences. (Russian summary) **57** #13905
- Szurek, Michal** Some topological theorems on the fixed point property. (Russian summary) **58** #12988
- Talman, Louis A.** Fixed points for condensing multifunctions in metric spaces with convex structure. (**57** #3923)
- Tan, Kok Keong** Uniform contraction. **58** #2781
- See also **Lee, Cheng Ming**, **58** #18395
- Tasković, Milan R.** Some results in the fixed point theory. **58** #24232
- On the convergence of certain sequences and some applications. **58** #18399a
- On the convergence of certain sequences and some applications. II. **58** #18399b
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- Tewari, B. M. L.** (with Singh, S. L.) On common fixed points and commuting mappings. **57** #13906
- Todd, Michael J.** Optimal dissection of simplices. (**58** #20460)
- Ts'ai, Yueh Hsia** See **Ko, Hwei Mei**, **57** #7566
- van de Vel, Marcel** The fixed point property of superextensions. **58** #31035
- Vojtášek, Stanislav** Some strongly non-linear systems and the fixed point properties. **58** #2782
- Vora, Chandan S.** Fixed points of certain symmetric product mappings of a metric manifold. (**58** #31062)
- Wawa, N. P. S.** See **Gupta, K. P.**, **58** #31023
- Weber, Hans** See **Gürtler, Marianne**, (**58** #12540)
- Wong, Chi Song** Maps of contractive type. **57** #13907
- Yeh, Cheh-Chih** Some fixed point theorems in complete metric spaces. **58** #12989
- See also **Murakami, Haruo**, **58** #12982
- Zanco, Clemente** See **Roux, Delfina**, **58** #2778

54H99 None of the above, but in this section

- Bocşan, Gheorghe** On some uniformities and topologies in Menger spaces. **58** #12990
- Hager, Anthony W.** (with Robertson, Lewis C.) Representing and ringifying a Riesz space. **58** #2783
- Hähle, Hermann** Zur Klassifikation von 8- und 16-dimensionalen lokalkompakten Translationsebenen nach ihren Kollineationsgruppen. (**58** #12703)
- Huckabay, Gary M.** On the classification of locally compact separable metric spaces. **58** #12991
- Kaluza, Theodor** Ein Schnittpunkt-Satz. **58** #31036
- Prák, Vlastimil** Nondiscrete mathematical induction. (**58** #7237)
- Robertson, Lewis C.** See **Hager, Anthony W.**, **58** #2783
- Witten, Matthew** Fitness and survival in logistic models. (**58** #26179)

54J05 Nonstandard topology

- Borodjanskii, B. M.** Nonstandard analysis and bicomact extensions. (Russian) **58** #24233
- Button, Robert Warren** When do \ast -continuous extensions exist? (**58** #21586)
- Cantini, Andrea** On non-Archimedean structures of D. Klaue. **58** #31041
- Henson, C. Ward** (with Moore, L. C., Jr.) Invariance of the nonstandard hulls of a uniform space. **58** #2784
- Herrmann, Robert A.** The Q -topology, Whyburn type filters and the cluster set map. **58** #2785a
- Nonstandard quasi-Hausdorff, Urysohn and regular-closed extensions. **57** #7571
- Erratum: "The Q -topology, Whyburn type filters and the cluster set map" (Proc. Amer. Math. Soc. **59** (1976), 161-166). **58** #2785b
- The nonstandard theory of semi-uniform spaces. **58** #12992
- Juhász, I.** Non-standard notes on the hyperspace. **58** #2786
- Luxemburg, Wilhelmus Anthonius Josephus** ★Non-standard analysis. (**58** #10428)
- See also **Stroyan, K. D.**, (**58** #10429)
- Moore, L. C., Jr.** See **Henson, C. Ward**, **58** #2784
- Narens, Louis** Field embeddings of generalized metric spaces. **58** #31037
- Homeomorphism types of generalized metric spaces. (**57** #16061)
- Puritz, Christian W.** Skies, constellations and monads. **58** #31038
- Stroyan, K. D.** Additional remarks on the theory of monads. **58** #31039
- (with Luxemburg, Wilhelmus Anthonius Josephus) ★Introduction to the theory of infinitesimals. (**58** #10429)
- Wattenberg, Frank** Two topologies with the same monads. **58** #31040
- Topologies on the set of closed subsets. **58** #18400
- Wolff, Manfred** Nonstandard-Komplettierung von Cauchy-Algebren. **58** #2787

55-XX ALGEBRAIC TOPOLOGY

55-01 Elementary exposition (collegiate level)

- Aleksandrov, P. S.** ★Введение в гомологическую теорию размерности и общую комбинаторную топологию. (Russian) [Introduction to homological dimension theory and general combinatorial topology] **58** #24234a
- ★Introduction à la théorie homologique de la dimension et la topologie combinatoire. **58** #24234b
- Bott, Raoul** On the shape of a curve. **58** #31042
- Černavskii, A. V.** See **Efremovič, V. A.**, (**58** #13041)
- Croom, Fred H.** ★Basic concepts of algebraic topology. **57** #17616
- Duda, Roman** The Poincaré conjecture. (Polish) **58** #31043
- Efremovič, V. A.** (with Černavskii, A. V.) ★Элементы топологии. (Russian) [Elements of topology] (**58** #13041)
- Griffiths, H. B.** ★Surfaces. **58** #18401
- Illman, Sören** Topology—a brief description and history. (Swedish. English summary) **58** #24235
- (**Kawada, Y.**) See **Topology**, **58** #31045
- Komatu, A.** (with Nakaoka, Minoru; Sugawara, Masahiro) ★Isō kikagaku. I. (Japanese) [Algebraic topology. I] **58** #31044
- Massey, William S.** ★Homology and cohomology theory. **58** #7594
- Nakaoka, Minoru** See **Komatu, A.**; et al., **58** #31044
- Petek, Peter** The fundamental group of a topological space. (Slovenian. English summary) **58** #12993
- Prodanov, Ivan** Homology groups. (Bulgarian) **58** #2788
- Rinow, W.** ★Lehrbuch der Topologie. (**58** #24157)
- Rolfen, Dale** ★Knots and links. **58** #24236
- (**Sosinskii, A. B.**) See **Aleksandrov, P. S.**, **58** #24234b
- Sugawara, Masahiro** See **Komatu, A.**; et al., **58** #31044
- Wall, C. T. C.** ★A geometric introduction to topology. **57** #17617
- Topology** ★Isō kikagaku. (Japanese) [Topology] **58** #31045

55-02 Advanced exposition (research surveys, etc.)

Massey, William S. How to give an exposition of the Čech-Alexander-Spanier type homology theory. **58** #7595

55-03 Historical

(Brouwer, L. E. J.) See Freudenthal, H., **58** #24237

(Dehn, Max) See Guggenheimer, Heinrich W., **58** #27069

Freudenthal, H. The cradle of modern topology, according to Brouwer's inedita. **58** #24237

Guggenheimer, Heinrich W. The Jordan curve theorem and an unpublished manuscript by Max Dehn. **58** #27069

Homenko, M. P. (with Vivrot, T. M.) Mutual interrelationship of the ideas of matrix theory and graph theory in their historical development. I. (Russian) **58** #27071

Illman, Sören Topology—a brief description and history. (Swedish. English summary) **58** #24235

Kristensen, Leif Certain features in the development of algebraic topology. (Danish) **58** #31046

(Listing, Johann Benedict) See Tripodi, Angelo, **57** #9422 and Tripodi, Angelo, **58** #4888

Pont, Jean-Claude ★La topologie algébrique des origines à Poincaré. **57** #12075

(Taton, René) See Pont, Jean-Claude, **57** #12075

Tripodi, Angelo Sviluppo della topologia secondo Johann Benedict Listing. **58** #4888

L'introduzione alla topologia di Johann Benedict Listing. **57** #9422

Vivrot, T. M. See Homenko, M. P., **58** #27071

55-04 Explicit machine computation and programs (not the theory of computation or programming)

Tourlakis, George Homological methods for the classification of discrete Euclidean structures. **58** #24238

55-06 Collections of papers; proceedings of conferences

(Barratt, M. G.) See Geometric applications of homotopy theory, **58** #18402a and Geometric applications of homotopy theory, **58** #18402b

(Čogašvili, G. S.) See Dimension theory and sheaf theory, **58** #2789

(Eckmann, Beno) See Topology and algebra, **58** #15778

(Knus, Max-Albert) See Topology and algebra, **58** #15778

(Mahowald, M. E.) See Geometric applications of homotopy theory, **58** #18402a and Geometric applications of homotopy theory, **58** #18402b

(Millett, Kenneth C.) See Algebraic and geometric topology, **58** #24239

(Mislin, Guido) See Topology and algebra, **58** #15778

(Stammach, Urs) See Topology and algebra, **58** #15778

(Vekua, N. P.) See Dimension theory and sheaf theory, **58** #2789

(Wilder, Raymond Louis) See Algebraic and geometric topology, **58** #24239

Algebra See Topology and algebra, **58** #15778

Algebraic and geometric topology ★Algebraic and geometric topology, **58** #24239

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Conference:

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Geometric Applications of Homotopy Theory See Geometric applications of homotopy theory, **58** #18402a and Geometric applications of homotopy theory, **58** #18402b

Dimension theory and sheaf theory ★Теория размерностей и теория пучков. (Russian) [Dimension theory and sheaf theory] **58** #2789

Evanston, Ill. See Geometric applications of homotopy theory, **58** #18402a and Geometric applications of homotopy theory, **58** #18402b

Generalized cohomology theories ★Generalized cohomology theories. (Japanese) **58** #31047

Geometric applications of homotopy theory ★Geometric applications of homotopy theory. I. **58** #18402a

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Topology and algebra ★Topology and algebra, **58** #15778

Zurich See Topology and algebra, **58** #15778

55Axx Low-dimensional topology [See also 57Axx.]

55A05 Fundamental group, presentations, free differential calculus [See also 20E40.]

Arnold, Edward M. Computable isomorphism invariants for the fundamental group of the complement of a plane projective curve. **58** #5684

Brown, Ronald (with Higgins, Philip J.) Sur les complexes croisés, ω -groupoïdes, et T -complexes. (English summary) **58** #18453

Čiliugreanu, Georges Sur certains invariants attachés aux groupes dénombrables. **58** #31049

Evans, Benny D. The conjugacy problem for boundary loops in 3-manifolds. **57** #176

Gauld, David B. On c -continuous fundamental groups. **57** #7572

Higgins, Philip J. See Brown, Ronald, **58** #18453

Luft, E. Actions of the homeotopy group of an orientable 3-dimensional handlebody. **58** #18461

Lyndon, Roger C. (with Schupp, Paul E.) ★Combinatorial group theory. **58** #2818

MacLachlan, Colin On representations of Artin's braid group. **58** #12994

Osborne, R. P. (with Stevens, R. S.) Group presentations corresponding to spines of 3-manifolds. II. **58** #7634a

(with Stevens, R. S.) Group presentations corresponding to spines of 3-manifolds. III. **58** #7634b

Schupp, Paul E. See Lyndon, Roger C., **58** #28182

Stevens, R. S. See Osborne, R. P., **58** #7634a and Osborne, R. P., **58** #7634b

Swarup, G. Ananda On embedded spheres in 3-manifolds. II. **58** #24271

55A10 Covering spaces, branched coverings

Berstein, Israel (with Edmonds, Allan L.) The degree and branch set of a branched covering. **57** #13908

Edmonds, Allan L. Branched coverings and orbit maps. **57** #1468

See also Bernstein, Israel, **57** #13908

Ezell, Cloyd L. Branch point structure of covering maps onto nonorientable surfaces. **58** #18403

Haken, Wolfgang An attempt to understand the four color problem. **58** #27600

Heimes, Reinhard (with Stöcker, Ralph) Coverings of surfaces. **58** #12995

Hirsch, Ulrich On regular homotopy of branched coverings of the sphere. **58** #2790

Jones, Gareth A. (with Singerman, David) Theory of maps on orientable surfaces. **58** #21744

Macbeath, A. M. Topological background. **57** #13909

Nishida, Osamu (with Suzuki, Shin'ichi) Remarks on branched covering spaces of the 3-sphere. **57** #13910

Nowicki, Przemysław n -leaf clover. (Polish) **58** #7350

Scott, Peter Subgroups of surface groups are almost geometric. **58** #12996

Singerman, David See Jones, Gareth A., **58** #21744

Stöcker, Ralph See Heimes, Reinhard, **58** #12995

Suzuki, Shin'ichi See Nishida, Osamu, **57** #13910

Takahashi, Moto-o Two knots with the same 2-fold branched covering space. **57** #146

Wilson, Stephen E. Non-orientable regular maps. **58** #21751

55A15 Graphs and map coloring [For other graph theory, see 05Cxx.]

Birman, Joan S. The algebraic structure of surface mapping class groups. **58** #7596

Fisk, Steve Geometric coloring theory. **58** #16362

The nonexistence of colorings. **58** #10562

Homenko, M. P. (with Ostroverhii, M. O.) Minimal imbeddings of graphs. I. (Russian) **58** #31050

(with Lysenko, N. V.) Some properties of q -transformations. (Russian) **58** #10548

Lovász, L. A homology theory for spanning trees of a graph. **58** #27577

Lysenko, N. V. See Homenko, M. P., **58** #10548

Marden, A. Geometrically finite Kleinian groups and their deformation spaces. **58** #13047

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Quitté, Claude Interprétation topologique des méthodes combinatoires utilisées par Ringel et Youngs. (English summary) **58** #18404

Genre non orientable de la somme connexe de deux graphes. (English summary) **58** #21747

Saaty, Thomas L. The number of intersections in complete graphs. **58** #21749

55A20 Two-dimensional complexes

Cohen, Joel M. Complexes dominated by a 2-complex. **57** #1470

Poincaré 2-complexes. II. **58** #7597

Aspherical 2-complexes. **58** #18405

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Ummel, Brian R. The product of nonplanar complexes does not embed in 4-space. **57** #17619

Voisin, Christine (with Malgoire, Jean) ★Cartes cellulaires. **58** #24270

55A25 Knots and links [For the high-dimensional case, see 57C45.]

Bailey, James (with Rolfsen, Dale) An unexpected surgery construction of a lens space. **58** #7633

Bezverhii, V. N. The conjugacy problem for subgroups for the group of a torus knot. (Russian) **58** #904

Burde, Gerhard Über periodische Knoten. **58** #31051

Chang, Bai Ching A classification of the commutator subgroup of the group of a boundary link. **57** #13911

Clark, Bradd Evans Crosscaps and knots. **57** #17620

Eisner, Julian R. Addendum to: "Knots with infinitely many spanning surfaces" (Trans. Amer. Math. Soc. **229** (1977), 329-349). **57** #4150

Funcke, Klaus Geschlecht von Knoten mit zwei Brüchen und die Faserbarkeit ihrer Außenräume. **58** #18406

González-Acuña, F. (with Montesinos Amilibia, José María) Ends of knot groups. **58** #7598

Gordon, C. McA. (with Litherland, R. A.) On the signature of a link. **58** #18407

Gramain, André Sur le groupe fondamental de l'espace des noeuds. (English summary) **57** #1552

Hillman, Jonathan A. Alexander ideals and Chen groups. **57** #17621

- Kawauchi, Akio On the Alexander polynomials of cobordant links. **58** #7599
- Kidwell, Mark E. Alexander polynomials of links of small order. **58** #12997
- On the Alexander polynomials of certain three-component links. **58** #2791
- Kirby, Robion C. A calculus for framed links in S^3 . (57 #7605)
- Kuo, Tzee-Char (with Lu, Yung Chen) On analytic function germs of two complex variables. (57 #704)
- Lambert, Howard A class of nonspittable links. **58** #2792
- Leibsch, Ulrich (with Weber, Martin) Topologische Betrachtungen an Textilien. (58 #9951)
- Lickorish, W. B. Raymond Surgery on knots. (58 #7632)
- Litherland, R. A. See Gordon, C. McA., **58** #18407
- Lu, Yung Chen See Kuo, Tzee-Char, (57 #704)
- Maeda, Toru On a composition of knot groups. II. Algebraic bridge index. **58** #7601b
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- Marumoto, Yoshihiko Relations between some conjectures in knot theory. **57** #13912
- Montesinos Amilibia, José María See González-Acuña, F., **58** #7598
- Murasugi, Kunio Knot theory. (Japanese) **58** #31052
- Nakagawa, Yoko A new class of knots with property P. **58** #31053
Elementary disks and their equivalences. (58 #2821)
On the Alexander polynomials of slice links. **58** #7600
- Neuzil, J. P. Elementary surgery manifolds and the elementary ideals. **57** #4151
- Rolfsen, Dale See Bailey, James, (58 #7633)
- Sakai, Tsuyoshi A remark on the Alexander polynomials of knots. **58** #12998
- Shibuya, Tetsuo Remarks on boundary links. **57** #1471
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- Takahashi, Moto-o Two knots with the same 2-fold branched covering space. (57 #1469)
- Weber, Martin See Leibsch, Ulrich, (58 #9951)
- Yajima, Takeshi (with Maeda, Toru) On a composition of knot groups. **58** #7601a
- 55A30** Wild knots and surfaces, etc.
- Bothe, Hans Günter A wildly embedded 1-dimensional compact set in S^3 each of whose components is tame. **57** #10698
- Pitxley, Carl P. On crumpled cubes in S^3 which are the finite union of tame 3-cells. (57 #7608)
- 55A35** Dehn's Lemma, sphere theorem, loop theorem, asphericity
- Domergue, Michel Extension du lemme de Dehn. (English summary) **58** #18409
- Loveland, L. D. Metric spaces with connected midsets. (57 #17601)
- Swarup, G. Ananda On embedded spheres in 3-manifolds. II. (58 #24271)
- Wright, David G. Sticky arcs in E^n ($n > 4$). (58 #24274)
- 55A40** Characterizations of E^3 and S^3 (Poincaré conjecture)
- Simon, Jonathan Fibered knots in homotopy 3-spheres. **58** #31054
- Thickstun, T. L. Taming and the Poincaré conjecture. (58 #2822)
- Yokoyama, Kazuo On links with property P^* . **57** #13913
- 55A99** None of the above, but in this section
- Gilman, Jane A matrix representation for automorphisms of compact Riemann surfaces. (58 #17077)
- Weaver, Norris Dehn's construction and the Poincaré conjecture. **58** #7602
- 55Bxx** Homology and cohomology theories
- 55B05** Čech types
- Abels, Herbert Enden von beschränkten Gebieten. (57 #7529)
- Bauer, Friedrich W. A characterization of movable compacta. **57** #10699
- Dugundji, James On Borsuk's extension of the Lefschetz-Hopf theorem. (Russian summary) **57** #1472
- Garavaglia, Steven Homology with equationally compact coefficients. **58** #12999
- Kasparov, G. G. Topological invariants of elliptic operators. I. K -homology. (Russian) **58** #7603
- Massey, William S. ★Homology and cohomology theory. (58 #7594)
- McMillan, D. R., Jr. (with Shrikhande, N.) On the simple connectivity of a quotient space. (Serbo-Croatian summary) (58 #18415)
- Petkova, Stanislava V. The universality of the mapping of the canonical homology into the Aleksandrov-Čech homology. (Russian, English summary) **58** #24240
- Shrikhande, N. See McMillan, D. R., Jr., (58 #18415)
- 55B10** Singular theory
- Lovász, L. A homology theory for spanning trees of a graph. (58 #27577)
- 55B15** K -theory [For algebraic K -theory, see 18F25.]
- Adams, J. F. Maps between classifying spaces. (58 #7628)
- Araki, Shōrō Topological K -theory. II. (Japanese) **58** #31074
- Bairamov, S. A. See Bunjатов, M. R., **57** #17622
- Bunjatov, M. R. (with Bairamov, S. A.) K -theory on the category of Boolean algebras with closure. (Russian, Azerbaijani and English summaries) **57** #17622
- Douglas, Ronald G. The relation of Ext to K -theory. (58 #30291)
Extensions of C^* -algebras and K -homology. **57** #13914
- Fujii, Kazuyuki Note on a paper of J. L. Taylor. (58 #13121)
- Fujii, Kenō (with Kobayashi, Teichi; Shimomura, Katsumi; Sugawara, Masahiro) KO -groups of lens spaces modulo powers of two. **58** #24241
- Jankowski, Andrzej Remark concerning K -theory of classifying spaces. **58** #7604
- Karoubi, Max ★ K -theory. **58** #7605
- Kobayashi, Teichi See Fujii, Kenō; et al., **58** #24241
- Saitō, G. A remark on Mod 2 K_* -theory fundamental classes. **58** #7606
- Segal, Graeme K -homology theory and algebraic K -theory. **58** #24242
- Shimomura, Katsumi See Fujii, Kenō; et al., **58** #24241
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- 55B20** Generalized (extraordinary) homology and cohomology theories, spectra
- Buhstaber, V. M. (with Miščenko, A. S.) Lectures on intrinsic homology and formal groups. (Russian) (57 #10715)
Two-valued formal groups. Algebraic theory and applications to cobordism. I. (Russian) (57 #9707)
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Topological applications of the theory of two-valued formal groups. (Russian) (58 #13087)
- Dymov, A. Z. The behavior at infinity of a fundamental group of a homologically trivial manifold. (Russian) (58 #24298)
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- Romani, Giuliano See Marchiafava, Stefano, (58 #13064)
- Shapiro, Jack M. On the homology and cohomology of the orthogonal and symplectic groups over a finite field of odd characteristic. 58 #18446
- Snaitch, Victor On the homology of the general linear groups over $\mathbb{Z}/4$. (58 #13032)
- Soulé, Christophe Addendum to the article: "On the torsion in $K_2(\mathbb{Z})$ " (Duke Math. J. 45 (1978), no. 1, 101-129) by R. Lee and R. H. Szczarba. (58 #11074b)
- Szczarba, R. H. See Lee, Ronnie, (58 #11074a) and Soulé, Christophe, (58 #11074b)
- Yates, R. G. See Corrigan, E. F.; et al., (57 #14972)
- Yoshida, Tomoyoshi See Hattori, Akio, (57 #1523)

55F45 Homology and homotopy of *BO* and *BU*; Bott periodicity

- Abeasis, Silvana Calcolo della coomologia di alcuni spazi simmetrici con metodi puramente algebrici. (English summary) 58 #13031
- Madsen, I. (with Snaitch, Victor; Tornehave, Jørgen) Infinite loop maps in geometric topology. (58 #13007)
- Snaitch, Victor See Madsen, I.; et al., (58 #13007)
- Tornehave, Jørgen See Madsen, I.; et al., (58 #13007)

55F50 Stable classes of vector space bundles, *K*-theory [For algebraic *K*-theory, see 18F25.]

- Adams, J. F. Geometric dimension of bundles over RP^n . 58 #2814
- Maps between classifying spaces. 58 #7628
- Akin, Ethan K -theory doesn't exist. 57 #13945
- Araki, Shōrō Topological K -theory. II. (Japanese) (58 #31074)
- Atiyah, M. F. A survey of K -theory. 57 #13946
- Douglas, Ronald G. The relation of Ext to K -theory. (58 #30291)
- Friedrich, Thomas ★Vorlesungen über K -Theorie. 58 #31075
- Fujii, Kazuyuki Note on a paper of J. L. Taylor. (58 #13121)
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- Yasuo, Minato On the KO -cohomology of the lens space $L^n(q)$ for q even. 58 #24265
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55F55 Fiberings with singularities

55F60 Microbundles and block bundles

55F65 Generalizations of fiber spaces and bundles

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- Ferry, Steve Approximate fibrations with nonfinite fibers. 57 #1490
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- Žukova, N. I. See Šapiro, Ja. L., 57 #17643

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- Booth, Peter I. (with Brown, Ronald) On the application of fibred mapping spaces to exponential laws for bundles, ex-spaces and other categories of maps. (58 #2695b) (with Brown, Ronald) Spaces of partial maps, fibred mapping spaces and the compact-open topology. (58 #2695a)
- Brown, Ronald See Booth, Peter I., (58 #2695a) and Booth, Peter I., (58 #2695b)
- Quinn, Frank Nilpotent classifying spaces, and actions of finite groups. 58 #13033

55Gxx Operations and obstructions**55G05 Primary cohomology operations**

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55G15 Symmetric products, cyclic products

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55G20 Secondary and higher cohomology operations

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55G25 K -theory operations and generalized cohomology operations

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- Beltrivšili, T. V.** On the Massey product. (Russian. Georgian and English summaries) 58 #24267
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55G35 Obstruction theory

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55G36 Extension and compression of mappings

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- Davis, Donald M.** The cohomology of the spectrum bJ . 57 #7601
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55H20 Eilenberg-Moore spectral sequences

- Hodgkin, Luke** The equivariant Künneth theorem in K -theory. 57 #17645
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55H25 Generalized cohomology

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- Stanley, Richard P.** Cohen-Macaulay complexes. (58 #28010)

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55J25 Homology of a product, Künneth formula

55J30 Duality

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57-XX MANIFOLDS AND CELL COMPLEXES [For complex manifolds, see 32C10.]

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- Atiyah, M. F. Bakerian Lecture, 1975. Global geometry. (57 #2794)
 Auslander, Louis (with MacKenzie, Robert E.) ★Introduction to differentiable manifolds. (57 #10717)
 Berger, Marcel (with Gostiaux, Bernard) ★Géométrie différentielle. (58 #13102)
 Białynicki-Birula, A. (with Pełczyński, A.) Apropos K. Sieklucki's article "On geometry and topology" (Wiadom. Mat. 15, 17-24 (1972)). (Polish) (58 #4890)
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57-04 Explicit machine computation and programs (not the theory of computation or programming)

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An extremal problem for quasiconformal mappings and a theorem by Thurston. (57 #16704)

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Ilmanen, Jane An example about normalizers in mapping class groups. (58 #6220)

Guggenheimer, Heinrich W. The Jordan curve theorem and an unpublished manuscript by Max Dehn. (58 #27069)

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Birman, Joan S. Special Heegaard splittings for closed, oriented 3-manifolds. 58 #2817

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Brin, Matthew G. Improving 3-manifold compactifications of open 3-manifolds. 58 #13046

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Kirby, Robion C. A calculus for framed links in S^3 . 57 #7605

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Compiled and Edited by William G. Brown

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DEPARTMENT OF MATHEMATICS

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